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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 65.0132 Seconds
(without alignments)
964.500 Million cell updates/sec

Title: US-09-587-574-1
Perfect score: 4445
Sequence: 1 MSNAVLTLLPDPSSSFRED.....DETFLPMYGRILGKVERID 840

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues
Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A COMB.pcp.*
2: /cgn2_6/ptodata/1/iaa/5B COMB.pcp.*
3: /cgn2_6/ptodata/1/iaa/6A COMB.pcp.*
4: /cgn2_6/ptodata/1/iaa/6B COMB.pcp.*
5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pcp.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|---------------------|
| 1 | 1736 | 39.1 | 855 | 3 | US-08-890-865A-10 |
| 2 | 1655 | 37.2 | 992 | 3 | US-08-890-865A-1 |
| 3 | 1605 | 36.1 | 900 | 3 | US-08-890-865A-4 |
| 4 | 412 | 9.3 | 127 | 3 | US-08-890-865A-19 |
| 5 | 208 | 4.7 | 235 | 3 | US-09-244-314-2 |
| 6 | 208 | 4.7 | 235 | 4 | US-09-498-959-2 |
| 7 | 208 | 4.7 | 235 | 4 | US-09-894-749-2 |
| 8 | 196 | 4.4 | 313 | 4 | US-09-270-767-43189 |
| 9 | 193 | 4.3 | 235 | 3 | US-09-244-314-4 |
| 10 | 193 | 4.3 | 235 | 4 | US-09-498-959-4 |
| 11 | 193 | 4.3 | 235 | 4 | US-09-894-749-4 |
| 12 | 190 | 4.3 | 51 | 3 | US-08-890-865A-23 |
| 13 | 189.5 | 4.3 | 520 | 4 | US-09-949-016-9918 |
| 14 | 172.5 | 3.9 | 211 | 2 | US-08-748-483-4 |
| 15 | 172.5 | 3.9 | 211 | 4 | US-09-949-016-6288 |
| 16 | 172.5 | 3.9 | 221 | 4 | US-09-949-016-10608 |
| 17 | 171.5 | 3.9 | 120 | 3 | US-08-890-865A-13 |
| 18 | 170.5 | 3.8 | 243 | 2 | US-08-829-110-3 |
| 19 | 169 | 3.8 | 181 | 4 | US-09-949-016-10741 |
| 20 | 167.5 | 3.8 | 120 | 3 | US-08-890-865A-11 |
| 21 | 166 | 3.7 | 119 | 2 | US-08-588-258B-31 |
| 22 | 166 | 3.7 | 119 | 3 | US-08-460-505-31 |
| 23 | 166 | 3.7 | 119 | 5 | PCT-US96-08295-31 |
| 24 | 166 | 3.7 | 196 | 2 | US-08-829-110-5 |
| 25 | 166 | 3.7 | 196 | 2 | US-08-748-483-3 |
| 26 | 166 | 3.7 | 196 | 4 | US-09-702-705-339 |
| 27 | 166 | 3.7 | 196 | 4 | US-09-736-457-339 |

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|----|-------|-----|-----|---|---------------------|-------------------|
| 28 | 166 | 3.7 | 196 | 4 | US-09-614-124B-339 | Sequence 339, App |
| 29 | 166 | 3.7 | 196 | 4 | US-09-671-325-339 | Sequence 339, App |
| 30 | 166 | 3.7 | 196 | 4 | US-09-589-184-339 | Sequence 339, App |
| 31 | 166 | 3.7 | 196 | 4 | US-09-658-824-339 | Sequence 339, App |
| 32 | 166 | 3.7 | 200 | 4 | US-09-949-016-10607 | Sequence 10607, A |
| 33 | 162.5 | 3.7 | 182 | 3 | US-09-041-886-21 | Sequence 21, Appl |
| 34 | 162 | 3.6 | 119 | 3 | US-08-890-865A-18 | Sequence 18, Appl |
| 35 | 160.5 | 3.6 | 190 | 4 | US-09-949-016-11199 | Sequence 11199, A |
| 36 | 159 | 3.6 | 119 | 3 | US-08-890-865A-15 | Sequence 15, Appl |
| 37 | 159 | 3.6 | 181 | 2 | US-08-748-483-1 | Sequence 1, Appl |
| 38 | 159 | 3.6 | 181 | 4 | US-09-709-103-25 | Sequence 25, Appl |
| 39 | 159 | 3.6 | 181 | 4 | US-09-439-410A-25 | Sequence 25, Appl |
| 40 | 158 | 3.6 | 121 | 2 | US-08-588-258B-32 | Sequence 32, Appl |
| 41 | 158 | 3.6 | 121 | 3 | US-08-460-505-32 | Sequence 32, Appl |
| 42 | 158 | 3.6 | 121 | 5 | PCT-US96-08295-32 | Sequence 32, Appl |
| 43 | 157.5 | 3.5 | 205 | 2 | US-08-829-110-6 | Sequence 6, Appl |
| 44 | 157.5 | 3.5 | 205 | 2 | US-08-748-483-5 | Sequence 5, Appl |
| 45 | 157.5 | 3.5 | 232 | 4 | US-09-949-016-11200 | Sequence 11200, A |

ALIGNMENTS

RESULT 1
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICANT NUMBER: US/08/890, 865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-10

Query Match 39.1%; Score 1736; DB 3; Length 855;
Best Local Similarity 44.5%; Pred. No. 1.6e-147;
Matches 406; Conservative 128; Mismatches 214; Indels 164; Gaps 35;
Qy 12 DPSSSFREDAPRPVPGEGETPPCQPSVGKSTKMPVS-----SNARNEDG--- 61
Db 25 DLGRSFTEDAPRPVPGEGE-----LVSTDRPVSHGFYSSKSDAVRNETSTAT 74
Qy 62 -----LG-EPEGRASPDSPLTTRWTKSLHSLGDDQDQAYLFRFTFLREKCVDTLDFWFA 113

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Db 75 PRSDLDLGYEPGSGSAPTPPYLKWAESLHSLDDQDGINLFTFLKQEDCADLLDFWFA 134
QY 114 CNGFRQWN---LKDTTKLRVAKAIYKRYI--ENNSVVSQKLPATKYIYRDGIKKQOIGSV 169
Db 135 CSGRKLEPCVSNEEKRLAKAIYKYLDDNNGIVSRQIKPATKSPFKDCVMKLIQDPD 194
QY 170 MFDQAQTEIQAVMEENAYQVLTSDIYLYVRGGENTAYMS--NGGLSLKVLGYLPT 227
Db 195 MFDQAQTEIQCMIEDNTYPLFLKSDIYLEYTRTGESPKIYSPSSGSGTGKGLPYLPT 254
QY 228 LNEEBEWC-ADLKCKLS----PTVVGSLSKTLRATASVRSTETAB-----NGRPSFKRD 278
Db 255 LNEDEEWKCDQDTEPEASRDSAPS-SRLTKLLELATQATSTRTYRSEGREPHGWSRE 313
QY 279 PVNPYHVGSGYVPAPATSANDSE---LSSDALTDSDMSMTDSSVDGVPYPMGSKKQLQR 335
Db 314 PVNPYVNTGYAMAPATSANDSEQQSMSSDA---DTMSLTDSSIDGIPPYRL--RQHR 368
QY 336 EMRSVKANGQVSLPHPRTHRLPKEMTPVEPAAPAAELISRLKLESLKLESHSLBEERL 395
Db 369 EMQESAKANGRVLPHPHPIRTYRMPKDI-HVEPEKFAELINRLEEVQKEREAEKLEERL 427
QY 396 QOJREDEEKGSGSOALSSRDGAPVQHPLALLPSG-----SYER 433
Db 428 KRVRAEE---GEDADISSGFSVISHK---MPSAQPHHPAPRYSEMGCGMQMRDAHEE 481
QY 434 DPOTILDDHLRSVLKTPGCGSPGVGRYSRPSRSPDHQHHHQCHQOCHTLITSGKLPVVA 493
Db 482 NPESILDEHVQVWKTPGCGSPGGRHSKPRSPESGH-----LGKSLGTLTIPP-- 532
QY 494 ACPLLGKSLFTKQTT-----KHVHHVYHHVAPKTKETAEABATQVRCLCPG 543
Db 533 -----GHGKHTTKSGMKLDAANLYHHKHVYHH-IHHHSMMKPKQEIAEABATQVRQNSFAW 586
QY 544 GTDYCYC-SCKSHPK-----APEPLPGEQPCGSRGGTLPKRNAGKTEPGLALSARDGMS 598
Db 587 NVDSHNYATKSRNYSNLGMAPVMDLSGYSG-KASLLSKRNITKTDGSKS-----DGANY 641
QY 599 SAAGGQPLGEEGDRQDVQWMLSEBQ---SKSPHSAQSIKRSYPLESARAAPGER- 654
Db 642 EMFGSP-----EDVERNQKILQWIEGEKEISRHKTNHGSSGKQLSHDMVREPLSIERP 697
QY 655 VSRHLLGASHGRSVAR-AHPTQDPAMPPLTPPNTLAQLEBACRRLAEVSK-----PQ 708
Db 698 VAVHPWV--SAQLRNVVQPSHPPIQDPTWPPNAPNPLTOLEEARRLLEEERKRAKGLPL 755
QY 709 KORCCVASQORDNRHNSAAGAGAPFANPSLAPEDHKPEKPLASVHALQASLVVTVYFC 768
Db 756 KQR--LKQKR-----PGSGASQPCEN-----IVVAYYFC 783
QY 769 GEBIPYRMLKAQSLTLGHFKQLSKKGNRYRYFKKASDEFACGAVPEEIMDDETVLPY 828
Db 784 GEPYRTLKGRVVTLGQPKELLTKKGNRYRYFKKVSDEFDCGVVFEVREDDTILPIF 843
QY 829 EGRILGKVERID 840
Db 844 EEKIIGKVEKID 855
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RESULT 2

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US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York

Query Match 37.2%; Score 1655; DB 3; Length 992;
Best Local Similarity 42.7%; Pred. No. 4.3e-140;
Matches 390; Conservative 133; Mismatches 246; Indels 144; Gaps 30;

QY 12 DPSSSFREDAPPPVPGEEG-----TPPCQSV--GKVOSTKPMVSNARNEDGLG- 63
Db 140 DLGASPTDAPPPVPGEEGELVSTDSRPVNHSPFCGKGTSIKSETSTATPRRSLDLGY 199
QY 64 EPEGASPSPLTRWTKSLHSLGDDGAYLERTLEREKCVDTLDFWACNGFRQWNLK 123
Db 200 EPEGASPTPPYLRWABSLHSLDDODGIGLFTFLKQEGCADLLDFWACSGFRKLEPC 259
QY 124 DT---KTLRAKAIYKRYI--ENNSVVSQKLPATKYIYRDGIKKQOIGSVMFDQAQTEIQ 179
Db 260 DSNEEKRLKARAIYKRYILDSNGIVSRQIKPATKSPFKDCVMKQI DPAMFDQAQTEIQ 319
QY 180 AWMEENAYQVLTSDIYLYVRGGENTAYMS--NGGLSLKVLGYLPTLNEEBEWC- 236
Db 320 STMEENTYPSFLKSDIYLEYTRTGESPKVCSQSSGSGTGKMSGYLPTLNEDEEWKCD 379
QY 237 -----ADLKCKLSPTVVGSLSKTL-----RATASVRSTETAEANGFRSKRSPVNPYHV 285
Db 380 QDAEDDDGRDPLPPS--RUTQKLLLETAAPRPSRRYNEGRELRYGSRW--EPVNPYYV 435
QY 286 GSGYVPAPATSANDSE---LSSDALTDSDMSMTDSSVDGVPYPMGSKKQLQREHRSVK 342
Db 436 NSGYALAPATSANDSEQQSLSSDA---DTLSLTDSSVDGI PPYRI--RQHRREQMESIQ 490
QY 343 ANGQVSLPHPRTHRLPKEMTPVEPAAPAAELISRLKLESLKLESHSLBEERLQQIRED 402
Db 491 VNGRVPLPHIPRTYRMPKEIR-VEPQKFAEELIHRLEAVQRTREAEKEERLKRVRMBE 549
QY 403 EXEGSEQALSSRDGAPVQHPLALLPS-----GSVEEDPOTILDDHLR 445
Db 550 EGEDGEMP-----SGPMASHKLPSPAWHHPPRYVDMGCSGLRDAHEENPESLDEHVQR 605
QY 446 VLKTPGCGSPGVGRYSRPSRSPDHQHHHQCHQOCHTLITSGKLPVVAACPLIGG----- 500
Db 606 VMRTFCQSPG-----PCHRSFDSGH-----VAKTAVLGGTASGH 640
QY 501 -----KSLTKQTT-----KHVHHVYHHVAPKTKETAEABATQVRCLCPGTDYYCY 550
Db 641 GKHPVKLGLKLTAGLHHRHVVHHH-VHNSA-RPKEQMEAEVARRVQSFSFSGWPEETHG 698
QY 551 SKCKSHPK-APEPL-PGEQFCGSRGTLTKRNAKGTETPGALSARDGMSAAGGQPLPG 608
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Db 699 AKPRSVENAGTILSAGDLPFGKTSAPKXNTKKAESGKANA-----EVPS 746
 Qy 609 --BEGDRSQDQWQMLESERQ---SKSKPHSAQSIKSYPLESARAAAGRVRSHLLGA 663
 Db 747 TTDEAKNQKIMWIEGEKEISHRKAGHGSSGLRQQAHESSRPLSIERPAGVHPWVS 806
 Qy 664 SGHRSVARAHPTQDPAMPBLTPPNTLAOLEEACRLAEVSK-----POKORCCVASQ 718
 Db 807 AOLRNSVQPSHLFTQDTPMPNPAFPLTQLEEARRELEEEERANKLPKQRYVQAVMQ 866
 Qy 719 RDRNHSAAQAGASPPFANP-----SLAPEDHKEPKKLASVHALQASBLVVTYFF 767
 Db 867 R-----GRTCVRPACAPVLSVVPVAVSDLELSETETKSQKAGGSAPPCCDSIVVGYYF 919
 Qy 768 CGEIPYRMLKAQSLTLGHFKHEQLSKKGNRYRYFKKASDEFACGAVFBEIWDDEVLP 827
 Db 920 CGEIPYRMLKAQSLTLGHFKHEQLSKKGNRYRYFKKASDEFACGAVFBEIWDDEVLP 827
 Qy 828 YEGRIKVERID 840
 Db 980 FEEKIIGKVEKD 992

RESULT 3

US-08-890-865A-4
 ; Sequence 4, Application US/08890865A
 ; Patent No. 6307019
 ; GENERAL INFORMATION:
 ; APPLICANT: Constantini, Franklin
 ; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
 ; NUMBER OF SEQUENCES: 23
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Cooper & Dunham LLP
 ; STREET: 1185 Avenue of the Americas
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: US
 ; ZIP: 10036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/890.865A
 ; FILING DATE: 10-JUL-1997
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: White, John P
 ; REGISTRATION NUMBER: 28,678
 ; REFERENCE/DOCKET NUMBER: 0575/54249
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212)278-0400
 ; TELEFAX: (212)391-0526
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 900 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: Protein
 ; US-08-890-865A-4

Query Match 36.1%; Score 1605; DB 3; Length 900;
 Best Local Similarity 41.2%; Pred. No. 1.2e-135;
 Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;
 Qy 12 DPSSSFRDAPRPVPGEGETPPCQPSGVKQSTKMPVVS-----SN 54
 Db 48 DLGASFTEDAPRPVPGEGE-----LVSTDRPASVFCSGKGVKGETSTAT 97

Qy 55 ARNRNEDGLG-EPEGRASPDSPLTRMTKSLHSLDQDQAGYLFRTFLERKCVDTLDFWFA 113
 Db 98 PRSDLDLGVPEEGSASPTPPYKLNWASLHSLDDQDQGISLFTFLKQECADLLDFWFA 157
 Qy 114 CNGFRQMNKDT---KTLRAVAIYKRYI-ENNSVYSKQKPKATKYIRDIGIKQIQISV 169
 Db 158 CTGFRKLEPCDSNEERLKLARIYKRYILDNNGIVSRQTKPATKFKICGINKQLLDPA 217
 Qy 170 MFDQAQTEIQAVMEENAYOVFLTSDIYLEYVRSGGENTAYMS--NGGLGSLKVLGCLYPT 227
 Db 218 MFDQAQTEIQAVMEENAYOVFLTSDIYLEYVRSGGENTAYMS--NGGLGSLKVLGCLYPT 227
 Qy 228 LNEEEEWTC-----ADLKCKLSPVTVGLSSKTLRATASVRSRTETAEANGFRSFKR 276
 Db 278 LNEDEWKCDQDMDDEGRDAAPPGRLL-POKLLLETAAPRVSSRRYSEGREFRYGSWR- 335
 Qy 277 SDPVNHYVSGVGVFAPATASNDSE---LSSDALTDSDMSMTDSSVDGVPYPMGSKQL 333
 Db 336 -EPVNPYYNAGYALAPATASNDSEQQSSSDA---DTLSLTSSVDGIPPYRI--RKQH 389
 Qy 334 OREMHRSVRKANGOVSLPHPRTHRLPKEMTPVEPPAAFAELISRLKLEKLELESRLSLEE 393
 Db 390 REMQESAQVNGRVPLPHPRTHRYRVPKEVR-VEPOKFAEELIHRLEAVQRTREAEKLEE 448
 Qy 394 RLQOIREDDEKEGSEQALSRRDGPVQ-----HPLALLPS-----G 429
 Db 449 RLKXVRMEEGE-----DGDPSGPPGPKLPPAPAWHHFPPRLCWTWACAGLRD 499
 Qy 430 SYEEDPQTLDDHLHSLRVLTGPGQSPGVGRYSRPSRSPDHQHQQHHQCHTLLSTGGKL 489
 Db 500 AHEENPESILDEHVQVRLRTTGRQSPG-----PGRHSPDSGHV-----AKM 540
 Qy 490 PVVAACPLLGGKSLTKQTTK-----HVHHVYIHHAVPKTKEEIEAEATQVRVC 539
 Db 541 PVALGGAASGHGKHVPKSGAKLDAAGLHHRHHVHV--HHSTARPEQVEAEATRAQS 598
 Qy 540 LCPGTDYCYCK-----CKSHPKAPEPLPGEQFCGSRGGTLPRKNAKGTPEGLALSARD 594
 Db 599 SFWGLEPHSHGARSRGYSESVAAPNASDGLAHSG-KVGVACKRNAKKAESGKSAST-- 655
 Qy 595 GGMSSAAGGPOLPG--REGDRSQDQWQMLESERQ---SKSKPHSAQSIKSYPLESARA 649
 Db 656 -----EVPCASEDAEKQKIMQWIEGEKEISHRRTGHGSGTRKQPQPHENSRP 705
 Qy 650 APCRVSRRHLLGASGHSRVARAHPTQDPAMPBLTPPNTLAOLEEACRLAEVSK--- 706
 Db 706 -----LSLEHPWAGPQLRTSVQPSHLFTQDTPMPHPAPNPLTQLEEARRELEEEKRA 760
 Qy 707 --POKORCCVASQORDNRNHSAAQAGASPPFANP-----SLAPEDHKEPKKLASV 753
 Db 761 RAPSQRVVOEVMR-----GEACVRPACAPVLSVVPVAVSDMELSETETRSQKVGCG 813
 Qy 754 HALQASBLVVTYFCGEEIYRMLKAQSLTLGHFKHEQLSKKGNRYRYFKKASDEFACGA 813
 Db 814 SAQPCDSIWVAYFCGEPYRVTIYRGRVTLGQKELLTKGSRYYRYFKKVSDEFDCGV 873
 Qy 814 VFBEIWDDEVLPVMEGRILKVERID 840
 Db 874 VFBEIWDDEVLPVMEGRILKVERID 840

RESULT 4

US-08-890-865A-19
 ; Sequence 19, Application US/08890865A
 ; Patent No. 6307019
 ; GENERAL INFORMATION:
 ; APPLICANT: Constantini, Franklin
 ; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
 ; NUMBER OF SEQUENCES: 23
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Cooper & Dunham LLP
 ; STREET: 1185 Avenue of the Americas

Query Match 4.3%; Score 193; DB 4; Length 235;
Best Local Similarity 28.1%; Pred. No. 5.7e-09;
Matches 50: Conservative 37; Mismatches 69; Indels 22; Gaps 5;

QY 41 GKQSTKMPVSSNARNE-----DGLGE-----PEGRASPDSPLTRWTKSL 82
Db 29 GKETSIEAKIRAKERNRLSLLQRPDFHGETQASRSALLAKETRVSPPEAV-KWAESF 87
QY 83 HSLGPDQDGYLFRTEREKCVDTLDFWPCACGFRQMNLDKTKTLRVAKAIYKRYIENN 142
Db 88 DKLSHRDGVDAFTRFLKTEFSEENIEFWVACEDFKCK-EPQOIIKAKAIYEKFIQND 146
QY 143 SVVSKOLKPKATKYIYRDGIKKQIGSVMFDAQTEIQAVMEENAYQVFLTSDIYLEYV 200
Db 147 APKEVNIDFHTKEVIAKSIQAPTLHS--FDTAQRVYQLMEHDSYKRFLLKSETYLHLI 202

RESULT 11

US-09-894-749-4
; Sequence 4, Application US/09894749
; Patent No. 6830914
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/894,749
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-894-749-4

Query Match 4.3%; Score 193; DB 4; Length 235;
Best Local Similarity 28.1%; Pred. No. 5.7e-09;
Matches 50; Conservative 37; Mismatches 69; Indels 22; Gaps 5;
QY 41 GKQSTKMPVSSNARNE-----DGLGE-----PEGRASPDSPLTRWTKSL 82
Db 29 GKETSIEAKIRAKERNRLSLLQRPDFHGETQASRSALLAKETRVSPPEAV-KWAESF 87
QY 83 HSLGPDQDGYLFRTEREKCVDTLDFWPCACGFRQMNLDKTKTLRVAKAIYKRYIENN 142
Db 88 DKLSHRDGVDAFTRFLKTEFSEENIEFWVACEDFKCK-EPQOIIKAKAIYEKFIQND 146
QY 143 SVVSKOLKPKATKYIYRDGIKKQIGSVMFDAQTEIQAVMEENAYQVFLTSDIYLEYV 200
Db 147 APKEVNIDFHTKEVIAKSIQAPTLHS--FDTAQRVYQLMEHDSYKRFLLKSETYLHLI 202

RESULT 12

US-08-890-865A-23
; Sequence 23, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 51 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-23

Query Match 4.3%; Score 190; DB 3; Length 51;
Best Local Similarity 66.7%; Pred. No. 8.5e-10;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 783 LTILGHFEQLSKKGNRYFYFKKASDEFACGAVFEEIWDDETLPVMEGRIL 833
Db 1 VTILGQPKELLTKKGSYRYFYFKKVSDFDCGVVFEVREDEPVLVPVEEKII 51

RESULT 13

US-09-949-016-9918
; Sequence 9918, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9918
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9918

Query Match 4.3%; Score 189.5; DB 4; Length 520;
Best Local Similarity 32.0%; Pred. No. 4.4e-08;
Matches 49; Conservative 26; Mismatches 67; Indels 11; Gaps 4;

QY 56 RRNEDGIGEPGEPA-----SPDS-PLTRWTKSLSLGDDQDQGYLFRTEREKCVDT 107
Db 362 RRNESPGAPPAGKADKMMKSFKPTSEALKWGESLEKLLVHKYGLAVFOAFLETFESEN 421
QY 108 LDFWFACNGFRQMNLDKTKTLRVAKAIYKRYIENNSVSKQLKPKATKYIYRDGIKKQIG 167
Db 422 LEFWLACEDFKVK-SQSKWAKAKIIPAYIAIOACKENVLDSTYREHTKDNL--QSVT 478
QY 168 SVMFDAQTEIQAVMEENAYQVFLTSDIYLEYV 200
Db 479 RGCFLAQKRIFGLMKDSYPRFLRSDLYLDLI 511

RESULT 14

US-08-748-483-4
; Sequence 4, Application US/08748483

Patent No. 5955314
 GENERAL INFORMATION:
 APPLICANT: Hillman, Jennifer L.
 APPLICANT: Goli, Surya K.
 TITLE OF INVENTION: A NOVEL REGULATOR OF CELL SIGNALLING
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 STREET: 3174 Porter Drive
 CITY: Palo Alto
 STATE: CA
 COUNTRY: US
 ZIP: 94304
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/748,483
 FILING DATE: Herewith
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Billings, Lucy J.
 REGISTRATION NUMBER: 36,749
 REFERENCE/DOCKET NUMBER: PF-0157 US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-855-0555
 TELEFAX: 415-845-4166
 TELEX:
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 211 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 LIBRARY: GenBank
 CLONE: 292037
 US-08-748-483-4

Query Match 3.9%; Score 172.5; DB 2; Length 211;
 Best Local Similarity 26.9%; Pred. No. 3.4e-07;
 Matches 46; Conservative 24; Mismatches 72; Indels 29; Gaps 4;
 Qy 30 EGETPPCQPSVGKVS-----TKMPVSSNARNEDGLGEPEGRASPDSPLTRWTKSLHSL 85
 Db 50 QNSSTPGKPKTKGKSKQAQAFIKPSPEAQL-----WSEAFDEL 87
 Qy 86 LGDQDGYLFTFLEREKCVDTLDFWACNGFRQMNLDKTKLRVAKAIYKRYIENNSV 145
 Db 88 LASKYGLAFAFLKSEFCENIEFWLACEFCKTK-SPOKLSKARKIYTDFFEKEAPK 146
 Qy 146 SKQLKPATKYIRDGIKKQOIGSMFDQAQTEIOAVMEENAYQVFLTSDIY 196
 Db 147 EINIDFQTKLIAQNI--QEATSGCFTTAQKRVYSLMNNNSYPRFLESEFY 195

RESULT 15
 US-09-949-016-6288
 Sequence 6288, Application US/09949016
 Patent No. 6812339
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 6288
 LENGTH: 211
 TYPE: PRT
 ORGANISM: Human
 US-09-949-016-6288
 Query Match 3.9%; Score 172.5; DB 4; Length 211;
 Best Local Similarity 26.9%; Pred. No. 3.4e-07;
 Matches 46; Conservative 24; Mismatches 72; Indels 29; Gaps 4;
 Qy 30 EGETPPCQPSVGKVS-----TKMPVSSNARNEDGLGEPEGRASPDSPLTRWTKSLHSL 85
 Db 50 QNSSTPGKPKTKGKSKQAQAFIKPSPEAQL-----WSEAFDEL 87
 Qy 86 LGDQDGYLFTFLEREKCVDTLDFWACNGFRQMNLDKTKLRVAKAIYKRYIENNSV 145
 Db 88 LASKYGLAFAFLKSEFCENIEFWLACEFCKTK-SPOKLSKARKIYTDFFEKEAPK 146
 Qy 146 SKQLKPATKYIRDGIKKQOIGSMFDQAQTEIOAVMEENAYQVFLTSDIY 196
 Db 147 EINIDFQTKLIAQNI--QEATSGCFTTAQKRVYSLMNNNSYPRFLESEFY 195
 Search completed: October 25, 2005, 15:44:21
 Job time : 67.0132 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 9.51979 Seconds
(without alignments)
964.500 Million cell updates/sec

Title: US-09-587-574-2

Perfect score: 639

Sequence: 1 WTKSLHLLGDQDQAYLFRFT.....VMEENAYQVFLTSDIYLEV 123

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pcp.*
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pcp.*
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pcp.*
- 4: /cgn2_6/ptodata/1/iaa/6B COMB.pcp.*
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- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|---------------------|
| 1 | 407 | 63.7 | 127 | 3 | US-08-890-865A-19 |
| 2 | 407 | 63.7 | 992 | 3 | US-08-890-865A-1 |
| 3 | 406 | 63.5 | 855 | 3 | US-08-890-865A-10 |
| 4 | 401 | 62.8 | 900 | 3 | US-08-890-865A-4 |
| 5 | 186.5 | 29.2 | 235 | 3 | US-09-244-314-2 |
| 6 | 186.5 | 29.2 | 235 | 4 | US-09-498-959-2 |
| 7 | 186.5 | 29.2 | 235 | 4 | US-09-894-749-2 |
| 8 | 177.5 | 27.8 | 235 | 3 | US-09-244-314-4 |
| 9 | 177.5 | 27.8 | 235 | 4 | US-09-498-959-4 |
| 10 | 177.5 | 27.8 | 235 | 4 | US-09-894-749-4 |
| 11 | 172.5 | 27.0 | 520 | 4 | US-09-949-016-9918 |
| 12 | 169.5 | 26.5 | 120 | 3 | US-08-890-865A-13 |
| 13 | 167.5 | 26.2 | 120 | 3 | US-08-890-865A-11 |
| 14 | 167.5 | 26.2 | 211 | 2 | US-08-748-483-4 |
| 15 | 167.5 | 26.2 | 211 | 4 | US-09-949-016-6288 |
| 16 | 167.5 | 26.2 | 221 | 4 | US-09-949-016-10608 |
| 17 | 165 | 25.8 | 119 | 2 | US-08-588-258B-31 |
| 18 | 165 | 25.8 | 119 | 3 | US-08-460-505-31 |
| 19 | 165 | 25.8 | 119 | 5 | PCT-US96-08295-31 |
| 20 | 165 | 25.8 | 196 | 2 | US-08-829-110-5 |
| 21 | 165 | 25.8 | 196 | 2 | US-08-748-483-3 |
| 22 | 165 | 25.8 | 196 | 4 | US-09-702-705-339 |
| 23 | 165 | 25.8 | 196 | 4 | US-09-736-457-339 |
| 24 | 165 | 25.8 | 196 | 4 | US-09-614-124B-339 |
| 25 | 165 | 25.8 | 196 | 4 | US-09-671-325-339 |
| 26 | 165 | 25.8 | 196 | 4 | US-09-589-184-339 |
| 27 | 165 | 25.8 | 196 | 4 | US-09-658-824-339 |

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|----|-------|------|-----|---|---------------------|-------------------|
| 28 | 165 | 25.8 | 200 | 4 | US-09-949-016-10607 | Sequence 10607, A |
| 29 | 160 | 25.0 | 119 | 3 | US-08-890-865A-18 | Sequence 18, Appl |
| 30 | 160 | 25.0 | 181 | 4 | US-09-949-016-10741 | Sequence 10741, A |
| 31 | 160 | 25.0 | 243 | 2 | US-08-829-110-3 | Sequence 3, Appl |
| 32 | 158 | 24.7 | 119 | 3 | US-08-890-865A-15 | Sequence 15, Appl |
| 33 | 158 | 24.7 | 121 | 2 | US-08-588-258B-32 | Sequence 32, Appl |
| 34 | 158 | 24.7 | 121 | 3 | US-08-460-505-32 | Sequence 32, Appl |
| 35 | 158 | 24.7 | 121 | 5 | PCT-US96-08295-32 | Sequence 6, Appl |
| 36 | 155.5 | 24.3 | 205 | 2 | US-08-829-110-6 | Sequence 5, Appl |
| 37 | 155.5 | 24.3 | 205 | 2 | US-08-748-483-5 | Sequence 11200, A |
| 38 | 155.5 | 24.3 | 232 | 4 | US-09-949-016-11200 | Sequence 1, Appl |
| 39 | 154.5 | 24.2 | 181 | 2 | US-08-748-483-1 | Sequence 25, Appl |
| 40 | 154.5 | 24.2 | 181 | 4 | US-09-709-103-25 | Sequence 25, Appl |
| 41 | 154.5 | 24.2 | 181 | 4 | US-09-439-010A-25 | Sequence 11199, A |
| 42 | 154.5 | 24.2 | 190 | 4 | US-09-949-016-11199 | Sequence 14, Appl |
| 43 | 152.5 | 23.9 | 120 | 3 | US-08-890-865A-14 | Sequence 2, Appl |
| 44 | 140.5 | 22.0 | 201 | 2 | US-08-726-228-2 | Sequence 2, Appl |
| 45 | 140.5 | 22.0 | 201 | 3 | US-08-870-815-2 | Sequence 2, Appl |

ALIGNMENTS

RESULT 1
US-08-890-865A-19
; Sequence 19, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-19

Query Match 63.7%; Score 407; DB 3; Length 127;

Best Local Similarity 61.9%; Pred. No. 3.2e-43;

Matches 78; Conservative 21; Mismatches 23; Indels 4; Gaps 2;

Qy 1 WTKSLHLLGDQDQAYLFRFTLEKCVDTLDFWFCNGFRMNLKDT---KTLRVAKI 57

Db 2 WAESTLHLLDDQDGLSLFRFLKQEGCADLLDFWFCNGFRKLPDSENEKRLKARAI 61

Qy 58 YKRYI-ENNSVSVSKLPATKTYIRDKIKKQKIGSVMFDOAQTRIQAVMEENAYQVFLTS 116

Db 62 YRKYLDSNGIVSRQKPKATKFIKUCVMKQIDPAMFDQAQTEIQSTWEENTYPSFLKS 121
QY 117 DYLEY 122
Db 122 DYLEY 127

RESULT 2
US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-1

Query Match 63.7%; Score 407; DB 3; Length 992;
Best Local Similarity 61.9%; Pred. No. 5.1e-42;
Matches 78; Conservative 21; Mismatches 23; Indels 4; Gaps 2;

QY 1 WTKSLHLLGDQDGAYLFRFTFLEREKCVDTLDFWFCNGFRQWNLKDT---KTLRVAKAI 57
Db 214 WAESLHLLDDQDGLSFLRFLKQEGCADLLDFWFCNGFRKLEPCDSNEEKRLKLARAI 273
QY 58 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIQIGSVMFQDQAQTEIQAVMEENAYQVFLTS 116
Db 274 YRKYLDSNGIVSRQKPKATKFIKUCVMKQIDPAMFDQAQTEIQSTWEENTYPSFLKS 333
QY 117 DYLEY 122
Db 334 DYLEY 339

RESULT 3
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li

; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-10

Query Match 63.5%; Score 406; DB 3; Length 855;
Best Local Similarity 61.1%; Pred. No. 5.6e-42;
Matches 77; Conservative 22; Mismatches 23; Indels 4; Gaps 2;

QY 1 WTKSLHLLGDQDGAYLFRFTFLEREKCVDTLDFWFCNGFRQWNLKDT---LKDXTLTVAKAI 57
Db 99 WAESLHLLDDQDGLNLFRTFLKQEGCADLLDFWFCNGFRKLEPCVSNEEKRLKLARAI 158
QY 58 YKRYI-ENNSVSKQLKPKATKYIRDGIKKQIQIGSVMFQDQAQTEIQAVMEENAYQVFLTS 116
Db 159 YRKYLDSNGIVSRQKPKATKFIKUCVMKQIDPDMFDQAQTEIQCMIEDNTYPLFLKS 218
QY 117 DYLEY 122
Db 219 DYLEY 224

RESULT 4
US-08-890-865A-4
; Sequence 4, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-4

Query Match 62.8%; Score 401; DB 3; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.5e-41;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

Qy 1 WTKSLHSLLDGDDGAYLFRFLERKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 57
Db 122 WAESLHSLLDGDDGAYLFRFLERKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 181

Qy 58 YKRYI-ENNSVSVSKQLKPKATKYIRDGKQKQIGSVMFDOAQTEIQAVMEENAYQVFL 116
Db 182 YRKYLDDNGIVSRQTKPATKSFYKGCIMKQLIDPAMFDOAQTEIQATMEENTYPSFLK 241

Qy 117 DYLEY 122
Db 242 DYLEY 247

RESULT 5
US-09-244-314-2
; Sequence 2, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/244,314
; CURRENT FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-244-314-2

Query Match 29.2%; Score 186.5; DB 3; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLLDGDDGAYLFRFLERKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPKQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGKQKQIGSVMFDOAQTEIQAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDPKENVLDPHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200

RESULT 6
US-09-244-314-2
; Sequence 2, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/244,314
; CURRENT FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-244-314-2

Query Match 29.2%; Score 186.5; DB 3; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLLDGDDGAYLFRFLERKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPKQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGKQKQIGSVMFDOAQTEIQAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDPKENVLDPHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200

RESULT 7
US-09-894-749-2
; Sequence 2, Application US/09894749
; Patent No. 6830914
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/894,749
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-894-749-2

Query Match 29.2%; Score 186.5; DB 4; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLLDGDDGAYLFRFLERKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPKQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGKQKQIGSVMFDOAQTEIQAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDPKENVLDPHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200

US-09-498-959-2
; Sequence 2, Application US/09498959
; Patent No. 6410240
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: 5800-19A
; CURRENT APPLICATION NUMBER: US/09/498,959
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: 09/244,314
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-498-959-2

Query Match 29.2%; Score 186.5; DB 4; Length 235;
Best Local Similarity 34.6%; Pred. No. 3.5e-15;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

Qy 1 WTKSLHSLLDGDDGAYLFRFLERKCVDTLDFWFCNGFR-----QMLKDTKTLRVA 54
Db 83 WGESFDKLLSHRDGLEAFTFLKTEFSEENIEFWIACEDFKSKGPKQIHLK-----A 135

Qy 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGKQKQIGSVMFDOAQTEIQAVMEENAYQVFL 114
Db 136 KAIYEKFIQTDPKENVLDPHTKEVITNSITQPTLHS--FDAAQSRVYQLMEQDSYTRFL 193

Qy 115 TSDIYLE 121
Db 194 KSDIYLD 200
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```

Db      194 KSDIYLD 200

RESULT 8
US-09-244-314-4
; Sequence 4, Application US/09244314
; Patent No. 6274362
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/244,314
; CURRENT FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-244-314-4

Query Match      27.8%; Score 177.5; DB 3; Length 235;
Best Local Similarity 31.7%; Pred. No. 4.7e-14;
Matches 33; Conservative 28; Mismatches 53; Indels 3; Gaps 2;

QY      1 WTKSLHSLGGDQGAYLFRTPLEREKVCVDTLDFWFACNGFRQMNLDKTKTLRVAKAIYKR 60
      83 WAESFDKLLSHRDGVDAFTPLKTEPSEENIEFWVACEDFKCK-EPQOILKAKAIVEK 141
      61 YIENSVVSKQLKPAATYIRDGKIKQOIGSVMFDDQATELQAVMEENAYQVFLTSDIYL 120
      142 FIQNDAPKEVNIIDPHTKEVIASIAQPTLHS--EDTAQSRVYQLMEHDSYKRFLLKSETYL 199
      121 EYV 123
      200 HLI 202

Db

RESULT 9
US-09-498-959-4
; Sequence 4, Application US/09498959
; Patent No. 6410240
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: 5800-19A
; CURRENT APPLICATION NUMBER: US/09/498,959
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: 09/244,314
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-498-959-4

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| | | | |
|----|---|----------------------|----------------------------------|
| | Query Match | 27.8%; | Score 177.5; DB 4; Length 235; |
| | Best Local Similarity | 31.7%; | Pred. No. 4.7e-14; |
| | Matches | 39; Conservative 28; | Mismatches 53; Indels 3; Gaps 2; |
| Qy | 1 WTKLSHLIGDQCAYILFTSTLEREKCVDTLDFWACNPFQMNLKOTKTLRVAKAIYKR | 60 | |
| Dd | 83 WAESFDKLSSHRRGDGAFTRFLTKTFESENTEFFWACEDFKCK-EPOIILKKAIYEK | 141 | |
| Qy | 61 YIENSVVSVKLPATKYIRIDGIKKOQIGSNMFDAQETETOAVMEENAYOVFITSDIYL | 120 | |
| Dd | 142 FIQNDAKPKEVNIDPHTKEVIAXIAQAPTLHS--FDAQSRYVOLMHDHYSRFLKSETYL | 199 | |

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Qy      121 EYV 123
      :
Db      200 HLI 202

RESULT 10
US-09-894-749-4
; Sequence 4, Application US/09894749
; Patent No. 6830914
; GENERAL INFORMATION:
; APPLICANT: Hodge, Martin R.
; APPLICANT: Yowe, David
; TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
; FILE REFERENCE: 5800-19, 035800/174680
; CURRENT APPLICATION NUMBER: US/09/894,749
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/244,314
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Mus sp.
; US-09-894-749-4

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| | | | | |
|-----------------------|--------|---|----------------|-------------------|
| Query Match | 27.8%; | Score 177.5; | DB 4; | Length 235; |
| Best Local Similarity | 31.7%; | Pred. No. 4.7e-14; | | |
| Matches | 39; | Conservative 28; | Mismatches 53; | Indels 3; Gaps 2; |
| Qy | 1 | WTKSLHSLGDGDGAYLFRTEFLREKCVDTLDFWACNGFQMNLIKDTKTLRVAKAIYKR | 60 | |
| Db | 83 | WAESFDKLLSHRDGVDAFTFLKTEPSEENLEFWACEDFKCK-EPQIILKAKAIYEK | 141 | |
| Qy | 61 | YIENSVVSKOLKPKATYIRDGKIKQOIGSWFDDQATEIQAVMEENAYQVFTSDIYL | 120 | |
| Db | 142 | FIONDAPEKVNIDFHTKEVIATAQPTLHS--FDTAQSRVYQLMEHDSYKRFLLKSETYL | 199 | |
| Qy | 121 | EYV | 123 | |
| Db | 200 | HLI | 202 | |

RESULT 11
 US-09-949-016-9918
 ; Sequence 9918, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASES, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 9918
 ; LENGTH: 520
 ; TYPE: PRT
 ; ORGANISM: Human
 US-09-949-016-9918

Query Match 27.0%; Score 172.5; DB 4; Length 520;
Best Local Similarity 32.5%; Pred. No. 5.8e-13;
Matches 40; Conservative 24; Mismatches 56; Indels 3; Gaps 2;
Qy 1 WTKSLHLLGGDQGYAFRTFLEREKCVDDTDFWACNGFQPMNLKDTKTLRVAKAIYKR 60

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Db 392 WGESLEKLVHVKYGLAVFOALRTEFSEENLEFWLACEDFKVK-SQSKWASKAKIFAE 450
Qy 61 YIENNSVSVKQPKATKYTRDGIKKQIGSVMPDQAQTEIQAVMEENAYQVFLTSDIYL 120
Db 451 YIAIQACKVNLDSYTRHTKNDL--QSVTRGCFDLAQKRIQGLMEKDSYPRFLRSLDYL 508
Qy 121 EYV 123
Db 509 DLI 511

RESULT 12
US-08-890-865A-13
; Sequence 13, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantin, Franklin
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-13

Query Match 26.5%; Score 169.5; DB 3; Length 120;
Best Local Similarity 33.1%; Pred. No. 1.9e-13;
Matches 40; Conservative 23; Mismatches 55; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDQGYALFRTRFLEREKCVDTLDFWACNGFRQMNLDKTKTLRVAKAIYKR 60
Db 2 WGESLEKLVHVKYGLAVFOALRTEFSEENLEFWLACEDFKVK-SQSKWASKAKIFAE 60
Qy 61 YIENNSVSVKQPKATKYTRDGIKKQIGSVMPDQAQTEIQAVMEENAYQVFLTSDIYL 120
Db 61 YIAIQACKVNLDSYTRHTKNDL--QSVTRGCFDLAQKRIQGLMEKDSYPRFLRSLDYL 118
Qy 121 E 121
Db 119 D 119

RESULT 13
US-08-890-865A-11
; Sequence 11, Application US/08890865A
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; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantin, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 120 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-11

Query Match 26.2%; Score 167.5; DB 3; Length 120;
Best Local Similarity 32.8%; Pred. No. 3.4e-13;
Matches 39; Conservative 20; Mismatches 57; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDQGYALFRTRFLEREKCVDTLDFWACNGFRQMNLDKTKTLRVAKAIYKR 60
Db 2 WSEAFDELLASKYGLAAFRALFKSEFCEENIEFWLACEDFKTK-SPOKLLSSKARKIYTD 60
Qy 61 YIENNSVSVKQPKATKYTRDGIKKQIGSVMPDQAQTEIQAVMEENAYQVFLTSDIY 119
Db 61 FIEKEAPKEINIDFQTKTLIAQNI--QEATSGCFTTAKRVYSLMENNYSYPRFLESEFY 117

RESULT 14
US-08-748-483-4
; Sequence 4, Application US/08748483
; Patent No. 5955314
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: A NOVEL REGULATOR OF CELL SIGNALLING
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
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Db 139 FIEKEAPKEINIDFQTKTLIAQNI--QEATSGCFTTAAKRVYSLMENNVPREFLESEFY 195

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Job time : 10.5198 secs

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; APPLICATION NUMBER: US/08/748,483
; FILING DATE: Herewith
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0157 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 211 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 292037
;
US-08-748-483-4
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Query Match 26.2%; Score 167.5; DB 2; Length 211;
Best Local Similarity 32.8%; Pred. No. 7.3e-13;
Matches 39; Conservative 20; Mismatches 57; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDQGAYLFRFTFLEREKCVDTLDFWFACNGFRQMNLLKDTKTLRVAKAIYKR 60
Db 80 WSEAFDELLASKYGLAAFRAPFLKSEFCEENIEFWLACEDFKTK-SPQKLSKARKIYTD 138

Qy 61 YIENNSVVSQKLKPATKYIRDGIKKQOIGSVMFDDQAQTEIQAVMEENAYQVFLTSDIY 119
Db 139 FIEKEAPKEINIDFQTKTLIAQNI--QEATSGCFTTAAKRVYSLMENNVPREFLESEFY 195
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RESULT 15
US-09-949-016-6288
; Sequence 6288, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 6288
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Human
;
US-09-949-016-6288
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Query Match 26.2%; Score 167.5; DB 4; Length 211;
Best Local Similarity 32.8%; Pred. No. 7.3e-13;
Matches 39; Conservative 20; Mismatches 57; Indels 3; Gaps 2;

Qy 1 WTKSLHSLGDDQGAYLFRFTFLEREKCVDTLDFWFACNGFRQMNLLKDTKTLRVAKAIYKR 60
Db 80 WSEAFDELLASKYGLAAFRAPFLKSEFCEENIEFWLACEDFKTK-SPQKLSKARKIYTD 138

Qy 61 YIENNSVVSQKLKPATKYIRDGIKKQOIGSVMFDDQAQTEIQAVMEENAYQVFLTSDIY 119
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:41:38 ; Search time 42.7309 Seconds
(without alignments)
1201.796 Million cell updates/sec

Title: US-09-587-574-2
Perfect score: 639
Sequence: 1 WTKSLHLLGDQDQAYLFRF.....VMEENAYQVLTSDIYLETV 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1862994 seqs, 417510619 residues
Total number of hits satisfying chosen parameters: 1862994

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/2/pubpaa/US10F_PUBCOMB.pep.*
19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|--------------------|
| 1 | 624 | 97.7 | 843 | 16 | US-10-723-860-1797 |
| 2 | 624 | 97.7 | 843 | 16 | US-10-751-736-1116 |
| 3 | 420 | 65.7 | 842 | 9 | US-09-798-831-8 |
| 4 | 401 | 62.8 | 461 | 16 | US-10-786-720-34 |
| 5 | 401 | 62.8 | 826 | 16 | US-10-786-720-36 |
| 6 | 401 | 62.8 | 862 | 16 | US-10-786-720-35 |
| 7 | 401 | 62.8 | 900 | 15 | US-10-374-979-91 |
| 8 | 401 | 62.8 | 900 | 15 | US-10-182-936A-91 |
| 9 | 401 | 62.8 | 900 | 16 | US-10-477-238A-670 |
| 10 | 401 | 62.8 | 900 | 16 | US-10-680-287A-670 |
| 11 | 401 | 62.8 | 900 | 17 | US-10-477-173-670 |

| | | | | | |
|----|-------|------|------|----|---------------------|
| 12 | 401 | 62.8 | 912 | 15 | US-10-092-900A-270 |
| 13 | 186.5 | 29.2 | 227 | 9 | US-09-867-550-848 |
| 14 | 186.5 | 29.2 | 235 | 9 | US-09-894-749-2 |
| 15 | 186.5 | 29.2 | 235 | 15 | US-10-258-371B-20 |
| 16 | 186.5 | 29.2 | 235 | 18 | US-10-989-054-2 |
| 17 | 184.5 | 28.9 | 119 | 15 | US-10-087-684-107 |
| 18 | 184.5 | 28.9 | 119 | 15 | US-10-218-779-107 |
| 19 | 181.5 | 28.4 | 916 | 18 | US-10-899-422-13 |
| 20 | 181.5 | 28.4 | 1059 | 18 | US-10-899-422-11 |
| 21 | 177.5 | 27.8 | 235 | 9 | US-09-894-749-4 |
| 22 | 177.5 | 27.8 | 235 | 18 | US-10-989-054-4 |
| 23 | 173.5 | 27.2 | 284 | 15 | US-10-094-749-1650 |
| 24 | 172.5 | 27.0 | 519 | 14 | US-10-113-794A-2 |
| 25 | 172.5 | 27.0 | 519 | 15 | US-10-428-487-14 |
| 26 | 172.5 | 27.0 | 519 | 15 | US-10-258-371B-28 |
| 27 | 172.5 | 27.0 | 591 | 15 | US-10-108-260A-3970 |
| 28 | 172.5 | 27.0 | 776 | 13 | US-10-087-192-1728 |
| 29 | 172.5 | 27.0 | 917 | 18 | US-10-487-092-15 |
| 30 | 167.5 | 26.2 | 211 | 9 | US-09-206-639-4 |
| 31 | 167.5 | 26.2 | 211 | 15 | US-10-258-371B-24 |
| 32 | 167.5 | 26.2 | 220 | 16 | US-10-408-765A-493 |
| 33 | 167.5 | 26.2 | 220 | 9 | US-09-925-300-1507 |
| 34 | 167.5 | 26.2 | 930 | 14 | US-10-113-794A-1 |
| 35 | 165 | 25.8 | 196 | 9 | US-09-206-639-3 |
| 36 | 165 | 25.8 | 196 | 9 | US-09-736-457-339 |
| 37 | 165 | 25.8 | 196 | 9 | US-09-902-941-339 |
| 38 | 165 | 25.8 | 196 | 9 | US-09-849-626-339 |
| 39 | 165 | 25.8 | 196 | 10 | US-09-476-300-339 |
| 40 | 165 | 25.8 | 196 | 14 | US-10-017-754-339 |
| 41 | 165 | 25.8 | 196 | 14 | US-10-113-872-339 |
| 42 | 165 | 25.8 | 196 | 14 | US-10-247-671-176 |
| 43 | 165 | 25.8 | 196 | 15 | US-10-283-017-339 |
| 44 | 165 | 25.8 | 217 | 9 | US-09-925-301-1292 |
| 45 | 165 | 25.8 | 923 | 15 | US-10-114-270-152 |

ALIGNMENTS

RESULT 1
US-10-723-860-1797
; Sequence 1797, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods for Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10723.860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1797
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-723-860-1797

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|-----------------------|--------------|---|--------------|------------|
| Query Match | 97.7% | Score 624 | DB 16 | Length 843 |
| Best Local Similarity | 95.9% | Pred. No. 3.4e-60 | | |
| Matches 118 | Conservative | 4 | Mismatches 1 | Indels 0 |
| Gaps | 0 | | | |
| Qy | 1 | WTKSLHLLGDQDQAYLFRFLEKEKCVDTLDFWACNGFQMLKDTKTLRVAKAIYKR | 60 | |
| Db | 78 | WTKSLHLLGDQDQAYLFRFLEKEKCVDTLDFWACNGFQMLKDTKTLRVAKAIYKR | 137 | |
| Qy | 61 | YIENNVSVKOLKPKATKTYIRDGKIKQIGISVMPDQATEIQVMEENAYQVLTSDIYL | 120 | |
| Db | 138 | YIENNVSVKOLKPKATKTYIRDGKIKQIGISVMPDQATEIQVMEENAYQVLTSDIYL | 197 | |

QY 121 EYV 123
Db 198 EYV 200

RESULT 2

US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match 97.7%; Score 624; DB 16; Length 843;
Best Local Similarity 95.9%; Pred. No. 3.4e-60;
Matches 118; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWFCNGFRQMNLDKTKTLRVAKAIYKR 60
Db 78 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWFCNGFRQMNLDKTKTLRVAKAIYKR 137
QY 61 YIENNSVSKQLPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFLTSDIYL 120
Db 138 YIENNSVSKQLPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFLTSDIYL 197
QY 121 EYV 123
Db 198 EYV 200

RESULT 3

US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/30601
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match 65.7%; Score 420; DB 9; Length 842;
Best Local Similarity 61.1%; Pred. No. 1.6e-37;
Matches 77; Conservative 25; Mismatches 20; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWFCNGFRQMNLDKTKTLRVAKAI 57
Db 85 WAESLHSLDDDDGHLFRFTFLOQENCADLLDFWACSGFRKLEPNDSKVEKRLAKAI 144
QY 58 YKRYI-ENNSVSKQLPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFLTS 116
Db 145 YKKYVLDNSGIVSRQIKPATKSFIXKQICVLRQQIDPAMFDAQMEIQSMMEDNTYPSFLKS 204
QY 117 DIYLEY 122
Db 205 DIYLEY 210

RESULT 4

US-10-786-720-34
; Sequence 34, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 34
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-34

Query Match 62.8%; Score 401; DB 16; Length 461;
Best Local Similarity 62.7%; Pred. No. 9.7e-36;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGAYLFRFTFLEREKCVDTLDFWFCNGFRQMNLDKTKTLRVAKAI 57
Db 134 WAESLHSLDDDDGSLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLAKAI 193
QY 58 YKRYI-ENNSVSKQLPKATKYIRDGIKKQIGSVMFDAQTEIOAVMEENAYQVFLTS 116
Db 194 YKRYLDNNGIVSRQTKPATKSFIXKQICVLRQQIDPAMFDAQTEIOAVMEENAYQVFLTS 253
QY 117 DIYLEY 122
Db 254 DIYLEY 259

RESULT 5

US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match 62.8%; Score 401; DB 16; Length 826;

Best Local Similarity 62.7%; Pred. No. 2e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGQGYLFRFTFLERKCVDTLDFWFCNGFRQNMVKDT---KTLRVAKAI 57
DB 85 WAESLHSLDDDDGIGISLFRFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 144
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116
DB 145 YRKYILDNNNGIVSRQTKPATKSPFIKGCIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 204
QY 117 DYLEY 122
DB 205 DYLEY 210

RESULT 6
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match 62.8%; Score 401; DB 15; Length 862;
Best Local Similarity 62.7%; Pred. No. 2.1e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGDDGQGYLFRFTFLERKCVDTLDFWFCNGFRQNMVKDT---KTLRVAKAI 57
DB 85 WAESLHSLDDDDGIGISLFRFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 144
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116
DB 145 YRKYILDNNNGIVSRQTKPATKSPFIKGCIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 204
QY 117 DYLEY 122
DB 205 DYLEY 210

RESULT 7
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511

; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-374-979-91

Query Match 62.8%; Score 401; DB 15; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;
QY 1 WTKSLHSLGDDGQGYLFRFTFLERKCVDTLDFWFCNGFRQNMVKDT---KTLRVAKAI 57
DB 122 WAESLHSLDDDDGIGISLFRFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116
DB 182 YRKYILDNNNGIVSRQTKPATKSPFIKGCIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241
QY 117 DYLEY 122
DB 242 DYLEY 247

RESULT 8
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-182-936A-91

Query Match 62.8%; Score 401; DB 15; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;
QY 1 WTKSLHSLGDDGQGYLFRFTFLERKCVDTLDFWFCNGFRQNMVKDT---KTLRVAKAI 57
DB 122 WAESLHSLDDDDGIGISLFRFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181
QY 58 YKRYI-ENNSVSVSKQLKPKATKYIRDIGIKKQIGSVNMFDAQTEIOAVMEENAYQVFLTS 116
DB 182 YRKYILDNNNGIVSRQTKPATKSPFIKGCIMKQLIDPAMFDQAQTEIOATMEENTYPSFLKS 241
QY 117 DYLEY 122
DB 242 DYLEY 247

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RESULT 9
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match      62.8%; Score 401; DB 16; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGGDQDGAYLFRFTFLERKCVDTLDFWACNGFROMNLKDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181

QY 58 YKRYI-ENNSVVSUKLPATKYIRDGIKKQIGSVMPDQAOQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATMEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 10
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match      62.8%; Score 401; DB 16; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGGDQDGAYLFRFTFLERKCVDTLDFWACNGFROMNLKDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181

QY 58 YKRYI-ENNSVVSUKLPATKYIRDGIKKQIGSVMPDQAOQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATMEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 11
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match      62.8%; Score 401; DB 17; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGGDQDGAYLFRFTFLERKCVDTLDFWACNGFROMNLKDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181

QY 58 YKRYI-ENNSVVSUKLPATKYIRDGIKKQIGSVMPDQAOQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATMEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 12
US-10-092-900A-270
; Sequence 270, Application US/10092900A
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match      62.8%; Score 401; DB 16; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGGDQDGAYLFRFTFLERKCVDTLDFWACNGFROMNLKDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181

QY 58 YKRYI-ENNSVVSUKLPATKYIRDGIKKQIGSVMPDQAOQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATMEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 11
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match      62.8%; Score 401; DB 17; Length 900;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;

QY 1 WTKSLHSLGGDQDGAYLFRFTFLERKCVDTLDFWACNGFROMNLKDT---KTLRVAKAI 57
Db 122 WAESLHSLDDQDGISLFRFTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 181

QY 58 YKRYI-ENNSVVSUKLPATKYIRDGIKKQIGSVMPDQAOQTEIOAVMEENAYQVFLTS 116
Db 182 YRKYILDNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDOAQTEIOATMEENTYPSFLKS 241

QY 117 DIYLEY 122
Db 242 DIYLEY 247

RESULT 12
US-10-092-900A-270
; Sequence 270, Application US/10092900A
```

Publication No. US20040043382A1
GENERAL INFORMATION:
APPLICANT: Padigar, Muralidhara
APPLICANT: Spytek, Kimberly A.
APPLICANT: Shenoy, Suresh G.
APPLICANT: Taupier Jr., Raymond J.
APPLICANT: Pena, Carol E.A.
APPLICANT: Li, Li
APPLICANT: Zerhusen, Bryan D.
APPLICANT: Gusev, Vladimir Y.
APPLICANT: Ji, Weizhen
APPLICANT: Gorman, Charles E.
APPLICANT: Miller, Ramesh
APPLICANT: Kekuda, Meera
APPLICANT: Patturajan, Meera
APPLICANT: Gangolli, Beha A.
APPLICANT: Vernet, Corine A.M.
APPLICANT: Guo, Xiaojia Sasha
APPLICANT: Tchernev, Velizar T.
APPLICANT: Fernandes, Elma R.
APPLICANT: Casman, Stacie J.
APPLICANT: Malyankar, Uriel M.
APPLICANT: Gerlach, Valerie
APPLICANT: Liu, Yi
APPLICANT: Anderson, David W.
APPLICANT: Spaderna, Steven K.
APPLICANT: Catterton, Elina
APPLICANT: Leite, Mario W.
APPLICANT: Zhong, Haihong
APPLICANT: Alsobrook, John P.
APPLICANT: Lepley, Denise M.
APPLICANT: Rieger, Daniel K.
APPLICANT: Burgess, Catherine E.
TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-290C
CURRENT APPLICATION NUMBER: US/10/092,900A
CURRENT FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: USN 60/274,322
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/283,675
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: USN 60/338,092
PRIOR FILING DATE: 2001-12-03
PRIOR APPLICATION NUMBER: USN 60/274,281
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/274,191
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/325,681
PRIOR FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: USN 60/304,354
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: USN 60/279,995
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: USN 60/294,899
PRIOR FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: USN 60/287,424
PRIOR FILING DATE: 2001-04-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 768
SEQ ID NO 270
LENGTH: 912
TYPE: PRT
ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 62.8%; Score 401; DB 15; Length 912;
Best Local Similarity 62.7%; Pred. No. 2.3e-35;
Matches 79; Conservative 17; Mismatches 26; Indels 4; Gaps 2;
QY 1 WTKSLHLLGDQDQGYLFRTRFLEREKCVDTLDFWACNGFRQMLKDT---KTLRVAKAI 57
DB 134 WAESLHLLDDQDQGISLFRFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAI 193

QY 58 YKEYI-ENKSVSVSKQLKPKATKYIRDGIIKKQIGSVMFDDQAEIOAVMEENAYQVFLTS 116
DB 194 YRKIIDNNGIVSRQYKPKATKSFIKGCIKQLIDPAMFDQAEIOATMEENTYPSFLKS 253
QY 117 DIYLEY 122
DB 254 DIYLEY 259

RESULT 13
US-09-867-550-848
Sequence 848, Application US/09867550
Patent No. US20020082206A1
GENERAL INFORMATION:
APPLICANT: Leach, Martin D.
APPLICANT: Mehraban, Fuad,
APPLICANT: Conley, Pamela
APPLICANT: Law, Debbie
APPLICANT: Topper, James
TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells and
TITLE OF INVENTION: Thereby
FILE REFERENCE: 21402-013 (Cura-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2001-09-20
PRIOR APPLICATION NUMBER: USSN 60/208,427
PRIOR FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 2125
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 848
LENGTH: 227
TYPE: PRT
ORGANISM: Homo sapiens
US-09-867-550-848

Query Match 29.2%; Score 186.5; DB 9; Length 227;
Best Local Similarity 34.6%; Pred. No. 2.8e-12;
Matches 44; Conservative 25; Mismatches 43; Indels 15; Gaps 3;

QY 1 WTKSLHLLGDQDQGYLFRTRFLEREKCVDTLDFWACNGFR-----OMNLKDTKTLRVA 54
DB 83 WGESFDKLLSHRDGLEAFTRFLKTEPSEENIEFWIACEDFKSGKGPQOIHKL-----A 135
QY 55 KAIYKRYIENNSVSVSKQLKPKATKYIRDGIIKKQIGSVMFDDQAEIOAVMEENAYQVFL 114
DB 136 KAIYKRFIQDAPKEVNLDFTHTKEVITNSITQPTLHS--FDAQSRVYQLMEQDSYTRFL 193
QY 115 TSDIYLE 121
DB 194 KSDIYLD 200

RESULT 14
US-09-894-749-2
Sequence 2, Application US/09894749
Patent No. US20020081683A1
GENERAL INFORMATION:
APPLICANT: Hodge, Martin R.
APPLICANT: Yowe, David
TITLE OF INVENTION: RGS-Containing Molecules and Uses Thereof
FILE REFERENCE: 5800-19, 035800/174680
CURRENT APPLICATION NUMBER: US/09/894,749
CURRENT FILING DATE: 2001-06-27
PRIOR APPLICATION NUMBER: 09/244,314
PRIOR FILING DATE: 1999-02-04
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 235
TYPE: PRT
ORGANISM: Homo sapiens
US-09-894-749-2
Query Match 29.2%; Score 186.5; DB 9; Length 235;

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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 4.17942 Seconds
(without alignments)
964.500 Million cell updates/sec

Title: US-09-587-574-3

Perfect score: 272
Sequence: 1 ANGVSLPHPRTRHRLPKEM.....RLEKLELSRHSLSERLQ 54

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
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6: /cgn2_6/ptodata/1/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query | Length | DB ID | Description |
|------------|-------|-------|--------|-------|----------------------|
| 1 | 157.5 | 57.9 | 855 | 3 | US-08-890-865A-10 |
| 2 | 142.5 | 52.4 | 992 | 3 | US-08-890-865A-1 |
| 3 | 141.5 | 52.0 | 900 | 3 | US-08-890-865A-4 |
| 4 | 69.5 | 25.6 | 271 | 4 | US-08-252-991A-26051 |
| 5 | 65 | 23.9 | 462 | 1 | US-08-458-023B-2 |
| 6 | 65 | 23.9 | 463 | 3 | US-09-111-556A-2 |
| 7 | 65 | 23.9 | 463 | 3 | US-08-360-758-2 |
| 8 | 61 | 22.4 | 392 | 4 | US-09-902-540-15206 |
| 9 | 60 | 22.1 | 188 | 4 | US-09-902-540-14932 |
| 10 | 59.5 | 21.9 | 222 | 4 | US-09-902-540-13429 |
| 11 | 58.5 | 21.5 | 277 | 4 | US-09-248-796A-21807 |
| 12 | 57 | 21.0 | 392 | 4 | US-09-949-016-6078 |
| 13 | 57 | 21.0 | 832 | 4 | US-09-758-282B-251 |
| 14 | 57 | 21.0 | 832 | 4 | US-09-758-282B-268 |
| 15 | 57 | 21.0 | 832 | 4 | US-09-577-304A-251 |
| 16 | 57 | 21.0 | 832 | 4 | US-09-577-304A-268 |
| 17 | 57 | 21.0 | 838 | 4 | US-09-758-282B-261 |
| 18 | 57 | 21.0 | 838 | 4 | US-09-758-282B-265 |
| 19 | 57 | 21.0 | 838 | 4 | US-09-577-304A-261 |
| 20 | 57 | 21.0 | 838 | 4 | US-09-577-304A-265 |
| 21 | 56.5 | 20.8 | 320 | 4 | US-09-252-991A-30322 |
| 22 | 56.5 | 20.8 | 320 | 4 | US-09-107-433-2791 |
| 23 | 56.5 | 20.8 | 534 | 2 | US-08-317-401E-2 |
| 24 | 56.5 | 20.8 | 552 | 2 | US-08-317-401E-4 |
| 25 | 56 | 20.6 | 288 | 4 | US-09-270-767-43786 |
| 26 | 56 | 20.6 | 558 | 4 | US-09-252-991A-16908 |
| 27 | 56 | 20.6 | 607 | 4 | US-09-902-540-11516 |

Sequence 4, Appli
Sequence 2, Appli
Sequence 21780, A
Sequence 16283, A
Sequence 30513, A
Sequence 4711, Ap
Sequence 1, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 5058, Ap
Sequence 6813, Ap
Sequence 4396, Ap
Sequence 8329, Ap
Sequence 2, Appli
Sequence 2, Appli
Sequence 31227, A
Sequence 7, Appli
Sequence 52, Appli

28 56 20.6 2584 3 US-08-936-135-4
29 56 20.6 2588 3 US-08-936-135-2
30 55.5 20.4 165 4 US-09-248-796A-21780
31 55 20.2 425 4 US-09-902-540-16283
32 54.5 20.0 411 4 US-09-252-991A-30513
33 54.5 20.0 489 4 US-09-107-532A-4711
34 54 19.9 578 3 US-08-981-215-1
35 54 19.9 640 4 US-09-873-404-2
36 54 19.9 640 4 US-10-243-735-2
37 54 19.9 1053 4 US-09-328-352-5058
38 53.5 19.7 227 4 US-09-107-532A-6813
39 53.5 19.7 240 4 US-09-543-681A-4396
40 53.5 19.7 242 4 US-09-543-681A-8329
41 53.5 19.7 439 4 US-09-442-143A-2
42 53.5 19.7 439 4 US-09-902-563-2
43 53.5 19.7 493 4 US-09-252-991A-31227
44 53.5 19.7 824 2 US-08-785-310A-7
45 53.5 19.7 824 2 US-08-816-693A-52

ALIGNMENTS

RESULT 1
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-10

Query Match 57.9%; Score 157.5; DB 3; Length 855;
Best Local Similarity 59.3%; Pred. No. 2.8e-11;
Matches 32; Conservative 11; Mismatches 10; Indels 1; Gaps 1;
Qy 1 ANGVSLPHPRTRHRLPKEMTPVPAFAAELISRLKLELSRHSLSERLQ 54
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Db 376 ANGRVPLPHPRTRHRLPKDI-HVPEKFAAELINRLLEEVQKEREAEKLESLRK 428

RESULT 2
US-08-890-865A-1
; Sequence 1, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 992 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-08-890-865A-1
Query Match 52.4%; Score 142.5; DB 3; Length 992;
Best Local Similarity 56.6%; Pred. No. 2.4e-09;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;
QY 2 NGQVSLPHFPTRHRLPKEMTPVEPAFAAEILSRLEKLESLRHSLSLEERLQ 54
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Db 492 NGRVPLPHPTRTYRMPKEIR-VEPQKFAEELIHRLEAVQRTREAEKLEERLK 543

RESULT 3
US-08-890-865A-4
; Sequence 4, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A

FILING DATE: 10-JUL-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/54249
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)278-0400
TELEFAX: (212)391-0526
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-890-865A-4
Query Match 52.0%; Score 141.5; DB 3; Length 900;
Best Local Similarity 56.6%; Pred. No. 2.9e-09;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;
QY 2 NGQVSLPHFPTRHRLPKEMTPVEPAFAAEILSRLEKLESLRHSLSLEERLQ 54
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Db 400 NGRVPLPHPTRTYRVPKEVR-VEPQKFAEELIHRLEAVQRTREAEKLEERLK 451

RESULT 4
US-09-252-991A-26051
; Sequence 26051, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26051
; LENGTH: 271
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26051
Query Match 25.6%; Score 69.5; DB 4; Length 271;
Best Local Similarity 32.1%; Pred. No. 0.69; Indels 15; Gaps 2;
Matches 18; Conservative 10; Mismatches 13; Indels 15; Gaps 2;
QY 1 ANQVSLPHFPTRHRLPKEMTPVEPAFAAEILSRLEKLESLRHSLSLEER 52
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Db 198 ANGELTSLH-----VPAEPAGYWLLELVRLDVTGVRVLSGKGAEWR 242

RESULT 5
US-08-458-023B-2
; Sequence 2, Application US/08458023B
; Patent No. 5667990
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Yoder, Wendy
; APPLICANT: Takagi, Shinobu
; APPLICANT: Boomnathan, Karuppan C.
; TITLE OF INVENTION: ASPERGILLUS EXPRESSION SYSTEM
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5667990o No. 5667990disk of No. 5667990th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York

STATE: New York
COUNTRY: USA
ZIP: 10174-6201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA: US/08/458,023B
APPLICATION NUMBER: US/08/458,023B
FILING DATE: 01-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lowrey Dr., Karen A.
REGISTRATION NUMBER: 31,274
REFERENCE/DOCKET NUMBER: 4086.010-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 462 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-458-023B-2

Query Match 23.9%; Score 65; DB 1; Length 462;
Best Local Similarity 48.3%; Pred. No. 4.7;
Matches 14; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

Qy 1 ANGOVSLPHFPR--THRLPKMTVPVPA 27
Db 336 ASYTVSPKPRFIWHAIPDEIVYQPA 364

RESULT 6
US-09-111-556A-2
Sequence 2, Application US/09111556A
Patent No. 6020180
GENERAL INFORMATION:
APPLICANT: Svendsen, Allan
APPLICANT: Pathar, Shamkant A
APPLICANT: Egel-Mitani, Michi
APPLICANT: Borch, Kim
APPLICANT: Clausen, Ib G
APPLICANT: Hansen, Mogens T
TITLE OF INVENTION: C. ANTARCTICA LIPASE AND LIPASE VARIANTS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6020180o No. 6020180disk of No. 6020180th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Tape
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,556A
FILING DATE: 22-DEC-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DK PCT/DK93/00225
FILING DATE: 03-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3748.214-US
TELECOMMUNICATION INFORMATION:

Query Match 23.9%; Score 65; DB 3; Length 463;
Best Local Similarity 48.3%; Pred. No. 4.7;
Matches 14; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 463 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-111-556A-2

Query Match 23.9%; Score 65; DB 3; Length 463;
Best Local Similarity 48.3%; Pred. No. 4.7;
Matches 14; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

Qy 1 ANGOVSLPHFPR--THRLPKMTVPVPA 27
Db 336 ASYTVSPKPRFIWHAIPDEIVYQPA 364

RESULT 7
US-08-360-758-2
Sequence 2, Application US/08360758
Patent No. 6074863
GENERAL INFORMATION:
APPLICANT: Svendsen, Allan
APPLICANT: Pathar, Shamkant A
APPLICANT: Egel-Mitani, Michi
APPLICANT: Borch, Kim
APPLICANT: Clausen, Ib G
APPLICANT: Hansen, Mogens T
TITLE OF INVENTION: C. ANTARCTICA LIPASE AND LIPASE VARIANTS
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 6074863o No. 6074863disk of No. 6074863th America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Tape
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/360,758
FILING DATE: 22-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DK PCT/DK93/00225
FILING DATE: 03-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3748.204-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 463 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-360-758-2

Query Match 23.9%; Score 65; DB 3; Length 463;
Best Local Similarity 48.3%; Pred. No. 4.7;
Matches 14; Conservative 5; Mismatches 8; Indels 2; Gaps 1;

Qy 1 ANGOVSLPHFPR--THRLPKMTVPVPA 27


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; SEQ ID NO 268
; LENGTH: 832
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-758-282B-268

Query Match                21.0%; Score 57; DB 4; Length 832;
Best Local Similarity      41.4%; Pred. No. 92;
Matches 12; Conservative  7; Mismatches 10; Indels 0; Gaps 0;

Qy      16 LPKEMTPVEPAAFAAELISRELEKLELE 44
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Db      216 LKHLQVQKPAVREKILSHMEDLKLSLE 244

RESULT 15
US-09-577-304A-251
; Sequence 251, Application US/09577304A
; Patent No. 6759226
; GENERAL INFORMATION:
; APPLICANT: Ma, Wu-Po
; APPLICANT: Lyamichev, Victor I.
; APPLICANT: Kaiser, Michael W.
; APPLICANT: Lyamicheva, Natalie E.
; APPLICANT: Allawi, Hatim T.
; APPLICANT: Schaefer, James J.
; APPLICANT: Neri, Bruce P.
; TITLE OF INVENTION: Improved Enzymes for the Detection of Specific Nucleic
; TITLE OF INVENTION: Acid Sequences
; FILE REFERENCE: FORS-04323
; CURRENT APPLICATION NUMBER: US/09/577,304A
; CURRENT FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 251
; LENGTH: 832
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-577-304A-251

Query Match                21.0%; Score 57; DB 4; Length 832;
Best Local Similarity      41.4%; Pred. No. 92;
Matches 12; Conservative  7; Mismatches 10; Indels 0; Gaps 0;

Qy      16 LPKEMTPVEPAAFAAELISRELEKLELE 44
      |||:|:|:|:|:|:|:|:|:|:|:|:|
Db      216 LKHLQVQKPAVREKILSHMEDLKLSLE 244

Search completed: October 25, 2005, 15:44:24
Job time : 6.17942 secs

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; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match      98.5%; Score 268; DB 16; Length 843;
Best Local Similarity 98.1%; Pred. No. 4.1e-23;
Matches 53; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ANQVSLPHPPRTHRLPKEMTPVEPAAFAAELISRLKLEKLESHSLERLQ 54
Db 343 ANQVSLPHPPRTHRLPKEMTPVEPAAFAAELISRLKLEKLESHSLERLQ 396

RESULT 3
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match      52.0%; Score 141.5; DB 16; Length 826;
Best Local Similarity 56.6%; Pred. No. 5.4e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHPPRTHRLPKEMTPVEPAAFAAELISRLKLEKLESHSLERLQ 54
Db 363 NGRVPLPHIPRTYRVPEKVR-VEPQKFABELIHRLEAVORTREAEKLEERLK 414

RESULT 4
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
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; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match      52.0%; Score 141.5; DB 16; Length 862;
Best Local Similarity 56.6%; Pred. No. 5.7e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHPPRTHRLPKEMTPVEPAAFAAELISRLKLEKLESHSLERLQ 54
Db 363 NGRVPLPHIPRTYRVPEKVR-VEPQKFABELIHRLEAVORTREAEKLEERLK 414

RESULT 5
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91

Query Match      52.0%; Score 141.5; DB 15; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHPPRTHRLPKEMTPVEPAAFAAELISRLKLEKLESHSLERLQ 54
Db 400 NGRVPLPHIPRTYRVPEKVR-VEPQKFABELIHRLEAVORTREAEKLEERLK 451

RESULT 6
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
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; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-182-936A-91

Query Match      52.0%; Score 141.5; DB 15; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAFAAEILSRLEKLEKLESRHSLEERLQ 54
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RESULT 7
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match      52.0%; Score 141.5; DB 16; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAFAAEILSRLEKLEKLESRHSLEERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVQRTREAEKLEERLK 451

RESULT 8
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
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; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match      52.0%; Score 141.5; DB 16; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAFAAEILSRLEKLEKLESRHSLEERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVQRTREAEKLEERLK 451

RESULT 9
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match      52.0%; Score 141.5; DB 17; Length 900;
Best Local Similarity 56.6%; Pred. No. 6e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;

QY 2 NGQVSLPHFPRTHRLPKEMTPVEPAFAAEILSRLEKLEKLESRHSLEERLQ 54
Db 400 NGRVPLPHIPRTYRVPKVR-VEPQKFAELIHRLEAVQRTREAEKLEERLK 451

RESULT 10
US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US2004004382A1
; GENERAL INFORMATION:
; APPLICANT: Padigar, Muralidhara
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; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Ji, Weizhen
; APPLICANT: Gorman, Linda
; APPLICANT: Miller, Charles E.
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gangolli, Baha A.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Tchernev,, Velizar T.
; APPLICANT: Fernandes, Elma R.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Liu, Yi
; APPLICANT: Anderson, David W.
; APPLICANT: Spaderina, Steven K.
; APPLICANT: Catterton, Elina
; APPLICANT: Leite, Mario W.
; APPLICANT: Zhong, Haihong
; APPLICANT: Alsobrook, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230C
; CURRENT APPLICATION NUMBER: US/10/092,900A
; PRIOR FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: USSN 60/274,322
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/283,675
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: USSN 60/338,092
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: USSN 60/274,281
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/274,191
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/325,681
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: USSN 60/304,354
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: USSN 60/279,995
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: USSN 60/294,899
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: USSN 60/287,424
; PRIOR FILING DATE: 2001-04-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 768
; SEQ ID NO 270
; LENGTH: 912
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-092-900A-270
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Best Local Similarity 56.6%; Pred. No. 6.1e-08;
Matches 30; Conservative 8; Mismatches 14; Indels 1; Gaps 1;
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Db 412 NGRVPLPHIPRTYRVPKEVR-VBFQKFAEELIHLRLAVQRTREAEKLEERLK 463
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RESULT 11
US-09-798-831-8
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; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3(BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8
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Best Local Similarity 53.7%; Pred. No. 2.2e-07;
Matches 29; Conservative 10; Mismatches 14; Indels 1; Gaps 1;
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RESULT 12

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US-09-798-831-6
; Sequence 6, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3(BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Rat axil
; OTHER INFORMATION: residues 362-386
US-09-798-831-6
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Db 1 MTPVEPAFAAEELISRLKLELE 25
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RESULT 13

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US-09-798-831-7
; Sequence 7, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3(BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306U1
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; CURRENT APPLICATION NUMBER: US/09/798,831
 ; CURRENT FILING DATE: 2001-03-01
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 ; PRIOR FILING DATE: 2000-03-01
 ; NUMBER OF SEQ ID NOS: 12
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 7
 ; LENGTH: 25
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Murine
 ; OTHER INFORMATION: conductin residues 362-386
 US-09-798-831-7

Query Match 43.4%; Score 118; DB 9; Length 25;
 Best Local Similarity 100.0%; Pred. No. 5.4e-07;
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 1 MTPVPAFAFAELISRLKLELE 25

RESULT 14

US-09-798-831-5
 ; Sequence 5, Application US/09798831
 ; Patent No. US20010052137A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KLEIN, Peter S.
 ; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
 ; TITLE OF INVENTION: SIGNALING
 ; FILE REFERENCE: 209596.0391/30601
 ; CURRENT APPLICATION NUMBER: US/09/798,831
 ; CURRENT FILING DATE: 2001-03-01
 ; PRIOR APPLICATION NUMBER: US 60/186,141
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 ; FEATURE:
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 US-09-798-831-5

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RESULT 15

US-10-072-012-490
 ; Sequence 490, Application US/10072012
 ; Publication No. US20040033493A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Tchernev, Velizar
 ; APPLICANT: Spytek, Kimberly
 ; APPLICANT: Zerhusen, Bryan
 ; APPLICANT: Patturajan, Meera
 ; APPLICANT: Shimkets, Richard
 ; APPLICANT: Li, Li
 ; APPLICANT: Gangolli, Esha
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Anderson, David W.
 ; APPLICANT: Rastelli, Luca

; APPLICANT: Miller, Charles E.
 ; APPLICANT: Gerlach, Valerie
 ; APPLICANT: Taupier Jr, Raymond J.
 ; APPLICANT: Gusev, Vladimir Y.
 ; APPLICANT: Colman, Steven D.
 ; APPLICANT: Wolenc, Adam R.
 ; APPLICANT: Pena, Carol E. A
 ; APPLICANT: Furtak, Katarzyna
 ; APPLICANT: Grosse, William M.
 ; APPLICANT: Alsobrook II, John P.
 ; APPLICANT: Lepley, Denise M.
 ; APPLICANT: Rieger, Daniel K.
 ; APPLICANT: Burgess, Catherine E.
 ; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
 ; FILE REFERENCE: 21402-258
 ; CURRENT APPLICATION NUMBER: US/10/072,012
 ; CURRENT FILING DATE: 2002-01-31
 ; PRIOR APPLICATION NUMBER: 60/265,102
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: 60/265,514
 ; PRIOR FILING DATE: 2001-01-31
 ; PRIOR APPLICATION NUMBER: 60/265,517
 ; PRIOR FILING DATE: 2001-01-31
 ; PRIOR APPLICATION NUMBER: 60/265,412
 ; PRIOR FILING DATE: 2001-01-31
 ; PRIOR APPLICATION NUMBER: 60/265,395
 ; PRIOR FILING DATE: 2001-01-31
 ; PRIOR APPLICATION NUMBER: 60/266,406
 ; PRIOR FILING DATE: 2001-02-02
 ; PRIOR APPLICATION NUMBER: 60/266,767
 ; PRIOR FILING DATE: 2001-02-05
 ; PRIOR APPLICATION NUMBER: 60/267,057
 ; PRIOR FILING DATE: 2001-02-07
 ; PRIOR APPLICATION NUMBER: 60/266,975
 ; PRIOR FILING DATE: 2001-02-07
 ; PRIOR APPLICATION NUMBER: 60/267,459
 ; PRIOR FILING DATE: 2001-02-08
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 1391
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 490
 ; LENGTH: 2590
 ; TYPE: PRT
 ; ORGANISM: Danio rerio
 US-10-072-012-490

Query Match 25.0%; Score 68; DB 15; Length 2590;
 Best Local Similarity 31.0%; Pred. No. 1.3e+02;
 Matches 22; Conservative 6; Mismatches 19; Indels 24; Gaps 2;

Qy 3 GOVSLPHFPTRHLPKEMT-----PVEPAFAFAELISRLKLELE----- 42
 Db 76 GQSTLPVPPPHKQPSVTALNHNLSRRNVSPAPPALPAELQITPTSPVLDQSWVLG 135
 Qy 43 ----LESRHSI 49
 Db 136 SNVPLESRHFL 146

Search completed: October 25, 2005, 16:16:41
 Job time : 19.7599 secs

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OM protein - protein search, using sw model

Run on: October 25, 2005, 15:41:38 ; Search time 23.971 Seconds
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Perfect score: 360

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Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
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- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
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- 19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 332 | 92.2 | 843 | 16 | US-10-723-860-1797 |
| 2 | 332 | 92.2 | 843 | 16 | US-10-751-736-116 |
| 3 | 158 | 43.9 | 842 | 9 | US-09-798-831-8 |
| 4 | 122 | 33.9 | 826 | 16 | US-10-786-720-36 |
| 5 | 122 | 33.9 | 862 | 16 | US-10-786-720-35 |
| 6 | 121.5 | 33.8 | 912 | 15 | US-10-092-900A-270 |
| 7 | 113.5 | 31.5 | 900 | 15 | US-10-374-979-91 |
| 8 | 113.5 | 31.5 | 900 | 15 | US-10-182-936A-91 |
| 9 | 113.5 | 31.5 | 900 | 16 | US-10-477-238A-670 |
| 10 | 113.5 | 31.5 | 900 | 16 | US-10-680-287A-670 |
| 11 | 113.5 | 31.5 | 900 | 17 | US-10-477-173-670 |

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| Sequence 227845, | 102 | 20.8 | 218 | 16 | US-10-425-115-227845 | Sequence 227845, |
| Sequence 124794, | 75 | 20.8 | 1487 | 16 | US-10-437-963-124794 | Sequence 124794, |
| Sequence 227847, | 73 | 20.3 | 175 | 16 | US-10-425-115-227847 | Sequence 227847, |
| Sequence 205230, | 72.5 | 20.1 | 182 | 16 | US-10-425-115-205230 | Sequence 205230, |
| Sequence 56486, A | 72.5 | 20.1 | 593 | 15 | US-10-425-114-56486 | Sequence 56486, A |
| Sequence 2, Appli | 72.5 | 20.1 | 1088 | 9 | US-09-920-804-2 | Sequence 2, Appli |
| Sequence 2, Appli | 72.5 | 20.1 | 1088 | 15 | US-10-640-483-2 | Sequence 2, Appli |
| Sequence 2, Appli | 72.5 | 20.1 | 1129 | 9 | US-09-734-674-2 | Sequence 2, Appli |
| Sequence 2, Appli | 72.5 | 20.1 | 1129 | 14 | US-10-274-990-2 | Sequence 2, Appli |
| Sequence 33467, A | 72.5 | 20.1 | 1129 | 20 | US-11-061-825-2 | Sequence 33467, A |
| Sequence 244452, | 72.5 | 20.1 | 1272 | 18 | US-10-450-763-33467 | Sequence 244452, |
| Sequence 3956, Ap | 71.5 | 19.9 | 307 | 16 | US-10-425-115-244452 | Sequence 3956, Ap |
| Sequence 308, App | 70 | 19.4 | 862 | 9 | US-09-738-626-3956 | Sequence 308, App |
| Sequence 262984, | 69.5 | 19.3 | 128 | 16 | US-10-425-115-262984 | Sequence 262984, |
| Sequence 49062, A | 69.5 | 19.3 | 670 | 9 | US-09-864-761-49062 | Sequence 49062, A |
| Sequence 2343, Ap | 69.5 | 19.3 | 1034 | 15 | US-10-104-047-2343 | Sequence 2343, Ap |
| Sequence 6, Appli | 69.5 | 19.3 | 1034 | 18 | US-10-486-977-11 | Sequence 6, Appli |
| Sequence 39, Appli | 68.5 | 19.0 | 441 | 16 | US-10-467-048A-6 | Sequence 39, Appli |
| Sequence 7, Appli | 68.5 | 19.0 | 441 | 17 | US-10-690-880-39 | Sequence 7, Appli |
| Sequence 8261, Ap | 68 | 18.9 | 8601 | 17 | US-10-496-377-7 | Sequence 8261, Ap |
| Sequence 352367, | 67.5 | 18.8 | 98 | 14 | US-10-156-761-8261 | Sequence 352367, |
| Sequence 110790, | 67.5 | 18.8 | 359 | 16 | US-10-425-115-352367 | Sequence 110790, |
| Sequence 38371, A | 67 | 18.6 | 126 | 16 | US-10-437-963-38371 | Sequence 38371, A |
| Sequence 276008, | 67 | 18.6 | 240 | 18 | US-10-450-763-38371 | Sequence 276008, |
| Sequence 184496, | 67 | 18.6 | 270 | 16 | US-10-767-701-38282 | Sequence 184496, |
| Sequence 33468, A | 67 | 18.6 | 1449 | 16 | US-10-437-963-184496 | Sequence 33468, A |
| Sequence 975, App | 66.5 | 18.5 | 1568 | 18 | US-10-450-763-33468 | Sequence 975, App |
| Sequence 270243, | 66 | 18.3 | 563 | 15 | US-10-369-493-975 | Sequence 270243, |
| Sequence 8055, Ap | 65 | 18.1 | 95 | 16 | US-10-425-115-270243 | Sequence 8055, Ap |
| Sequence 14535, A | 65 | 18.1 | 303 | 14 | US-10-156-761-8055 | Sequence 14535, A |
| Sequence 118666, | 65 | 18.1 | 748 | 20 | US-11-097-143-14535 | Sequence 118666, |
| | 65 | 18.1 | 795 | 16 | US-10-437-963-118666 | |

ALIGNMENTS

RESULT 1
US-10-723-860-1797
; Sequence 1797, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1797
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-1797

Query Match 92.2%; Score 332; DB 16; Length 843;
Best Local Similarity 89.9%; Pred No. 5.3e-30;
Matches 62; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
Oy 1 QIREDEKEGSEQALSRRDGAPVQHPLALLPSGYEEDPQTILDDHLSRVLTGCGSPG 60
Db 397 QIREDEKEGSELTLNREGAPTQHPLSLPSGYEEDPQTILDDHLSRVLTGCGSPG 456
Oy 61 VGRYSPRSR 69
Db 457 VGRYSPRSR 465

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RESULT 2
US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match          92.2%; Score 332; DB 16; Length 843;
Best Local Similarity 89.9%; Pred. No. 5.3e-30;
Matches 62; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 QTRDEKEGSEQALSSRDGAPVQHPLALLPGSYEEDPQTLLDHLRLVLTGQCSPG 60
Db 397 QTRDEBERGSELTLSREGAPTQHPLSLPLPGSYEEDPQTLLDHLRLVLTGQCSPG 456

QY 61 VGRYSRPSR 69
Db 457 VGRYSRPSR 465

RESULT 3
US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3(BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306UI
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match          43.9%; Score 158; DB 9; Length 842;
Best Local Similarity 40.0%; Pred. No. 1.1e-09;
Matches 34; Conservative 14; Mismatches 11; Indels 26; Gaps 3;

QY 7 EKEGSEQALSSRDGAPVQHPLALLPSG-----SYEEDPQTILD 44
Db 419 EEEGDGDDVSGGSV-ISHK---LPGPFMHFNRSYETGCVQMQRDAHEENPESILD 474

QY 45 DHLRLVLTGQCSPGVGRYSRPSR 69
Db 475 EHVQVMKTPGCQSPGTGRHSPKSR 499
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RESULT 4
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match          33.9%; Score 122; DB 16; Length 826;
Best Local Similarity 35.8%; Pred. No. 3.1e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 30; Gaps 3;

QY 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS-----G 33
Db 403 REAEKLEERLKRVRMEEGEDGDPSSGPGPC-HKLPAPAWHHFPPRCVDMGCAGLRD 461

QY 34 SYEEDPQTILDHLRLVLTGQCSPGVGRYSRPS 68
Db 462 AHEENPESILDEHVQVRLTPTGQSPGPHRSFDS 496

RESULT 5
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match          33.9%; Score 122; DB 16; Length 862;
Best Local Similarity 35.8%; Pred. No. 3.3e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 30; Gaps 3;

QY 3 REDEEK-----EGSEQALSSRDGAPVQHPLALLPS-----G 33
Db 403 REAEKLEERLKRVRMEEGEDGDPSSGPGPC-HKLPAPAWHHFPPRCVDMGCAGLRD 461

QY 34 SYEEDPQTILDHLRLVLTGQCSPGVGRYSRPS 68
Db 462 AHEENPESILDEHVQVRLTPTGQSPGPHRSFDS 496

RESULT 6
US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
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: GENERAL INFORMATION:
: APPLICANT: Padigaru, Muralidhara
: APPLICANT: Spytek, Kimberly A.
: APPLICANT: Shenoy, Suresh G.
: APPLICANT: Taupier Jr., Raymond J.
: APPLICANT: Pena, Carol E.A.
: APPLICANT: Li, Li
: APPLICANT: Zerhusen, Bryan D.
: APPLICANT: Gusev, Vladimir Y.
: APPLICANT: Ji, Weizhen
: APPLICANT: Gorman, Linda
: APPLICANT: Miller, Charles E.
: APPLICANT: Kekuda, Ramesh
: APPLICANT: Patturajan, Meera
: APPLICANT: Gangolli, Baha A.
: APPLICANT: Vernet, Corine A.M.
: APPLICANT: Guo, Xiaojia Sasha
: APPLICANT: Tchernev,, Velizar T.
: APPLICANT: Fernandes, Elma R.
: APPLICANT: Casman, Stacie J.
: APPLICANT: Malyankar, Uriel M.
: APPLICANT: Gerlach, Valerie
: APPLICANT: Liu, Yi
: APPLICANT: Anderson, David W.
: APPLICANT: Spaderna, Steven K.
: APPLICANT: Catterton, Elina
: APPLICANT: Leite, Mario W.
: APPLICANT: Zhong, Haihong
: APPLICANT: Alsobrook, John P.
: APPLICANT: Lepley, Denise M.
: APPLICANT: Rieger, Daniel K.
: APPLICANT: Burgess, Catherine E.
: TITLE OF INVENTION: No. US20040043382A1e1 Proteins and Nucleic Acids Encoding Same
: FILE REFERENCE: 21402-290C
: CURRENT APPLICATION NUMBER: US/10/092,900A
: CURRENT FILING DATE: 2002-03-07
: PRIOR APPLICATION NUMBER: USSN 60/274,322
: PRIOR FILING DATE: 2001-03-08
: PRIOR APPLICATION NUMBER: USSN 60/283,675
: PRIOR FILING DATE: 2001-04-13
: PRIOR APPLICATION NUMBER: USSN 60/338,092
: PRIOR FILING DATE: 2001-12-03
: PRIOR APPLICATION NUMBER: USSN 60/274,281
: PRIOR FILING DATE: 2001-03-08
: PRIOR APPLICATION NUMBER: USSN 60/274,191
: PRIOR FILING DATE: 2001-03-08
: PRIOR APPLICATION NUMBER: USSN 60/325,681
: PRIOR FILING DATE: 2001-09-27
: PRIOR APPLICATION NUMBER: USSN 60/304,354
: PRIOR FILING DATE: 2001-07-10
: PRIOR APPLICATION NUMBER: USSN 60/279,995
: PRIOR FILING DATE: 2001-03-30
: PRIOR APPLICATION NUMBER: USSN 60/294,899
: PRIOR FILING DATE: 2001-05-31
: PRIOR APPLICATION NUMBER: USSN 60/287,424
: PRIOR FILING DATE: 2001-04-30
: Remaining Prior Application data removed - See File Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 768
: SEQ ID NO 270
: LENGTH: 912
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 33.8%; Score 121.5; DB 15; Length 912;
Best Local Similarity 35.4%; Pred. No. 4e-05;
Matches 34; Conservative 10; Mismatches 21; Indels 31; Gaps 3;

Qy 3 REDEK-----EGSEQALSRDGNVPVOHPLALLPS----- 32
Db 452 REAEKLEERLKRVMEEDGEDGPPSGPGPC-HKLPPAPAMHHFPPLCWTWACAGLR 510
Vv 33 GSYFEDPOTILDDHLRVLKTPGCGSPGVGRYSPRS 68

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US-10-182-936A-91
Query Match      31.5%; Score 113.5; DB 15; Length 900;
Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

QY 3 REDEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498

QY 33 GSYEEPQTILDDHLSRVLTGCGSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534

RESULT 9
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match      31.5%; Score 113.5; DB 16; Length 900;
Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

QY 3 REDEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498

QY 33 GSYEEPQTILDDHLSRVLTGCGSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534

RESULT 10
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match      31.5%; Score 113.5; DB 16; Length 900;
Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

QY 3 REDEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498

QY 33 GSYEEPQTILDDHLSRVLTGCGSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534

RESULT 11
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match      31.5%; Score 113.5; DB 17; Length 900;
Best Local Similarity 34.4%; Pred. No. 0.00035;
Matches 33; Conservative 10; Mismatches 22; Indels 31; Gaps 3;

QY 3 REDEK-----EGSEQALSSRDGAPVQHPLALLPS----- 32
Db 440 REAEKLEERLKRVRMEEGEDGDPSSGPPGPC-HKLPAPAWHPPRLCWTWACAGLR 498

QY 33 GSYEEPQTILDDHLSRVLTGCGSPGVGRYSPRS 68
Db 499 DAHEENPESILDEHVQVRLTTGRQSPGPGHRSPTS 534
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RESULT 12
US-10-425-115-227845
; Sequence 227845, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227845
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(218)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_139390C.1.pep
US-10-425-115-227845

Query Match 20.8%; Score 75; DB 16; Length 218;
Best Local Similarity 29.5%; Pred. No. 2.1;
Matches 23; Conservative 6; Mismatches 29; Indels 20; Gaps 3;

Qy 1 QIREDEKESGEQALSSRDGA-----PVQHPALLPSSGYEEDPQTILD-----D 45
Db 85 RVRNGDRSSQSPAKQSGREGVGLSLDIPQLHDLAVRPSKDESPDAALDFSPHSDHSQ 144

Qy 46 HLSRVLTKP-----GCOS 58
Db 145 RLQRCVSSPAPFXAGCSS 162

RESULT 13
US-10-437-963-124794
; Sequence 124794, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 124794
; LENGTH: 1487
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_27499C.1.pep
US-10-437-963-124794

Query Match 20.8%; Score 75; DB 16; Length 1487;
Best Local Similarity 31.1%; Pred. No. 23;
Matches 23; Conservative 15; Mismatches 20; Indels 16; Gaps 3;

Qy 4 EDEKEGSEQ-----ALSRDGAAPVQHPALLPSSGY--EEDPQTILDHLSRVLTKP 54
Db 145 RLQRCVSSPAPFXAGCSS 162

RESULT 14
US-10-425-115-227847
; Sequence 227847, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 227847
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_139392C.1.pep
US-10-425-115-227847

Query Match 20.3%; Score 73; DB 16; Length 175;
Best Local Similarity 29.6%; Pred. No. 2.7;
Matches 21; Conservative 8; Mismatches 28; Indels 14; Gaps 3;

Qy 1 QIREDEKESGEQALSSRDGA-----PVQHPALLPSSGYEEDPQTIL-----DDHLS 48
Db 85 RVRNGDRSSQSPAKQSGREGVGLSLDIPQLHDLAVRPSKDESPDAALDFSPHSDHSQ 144

Qy 49 RVLKTPGCCSP 59
Db 145 RLQRCVSSPAPFXAGCSS 162

RESULT 15
US-10-425-115-205230
; Sequence 205230, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 205230
; LENGTH: 182
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_118759C.1.pep
US-10-425-115-205230

Query Match 20.1%; Score 72.5; DB 16; Length 182;
Best Local Similarity 29.8%; Pred. No. 3.3;
Matches 17; Conservative 10; Mismatches 19; Indels 11; Gaps 1;

Qy 3 REDEKEGSEQALSSRDGAAPVQHPALLPSSGYEEDPQTILDDHLSRVLTKPQCQSP 59
Db 13 KDDREFGAAAEK-----LVPSHQQQSPASVVDKSSGVSSVPGDESP 58
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Search completed: October 25, 2005, 16:16:42
Job time : 24.971 secs

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QM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 5.34037 Seconds
(without alignments)
964.500 Million cell updates/sec

Title: US-09-587-574-4
Perfect score: 360
Sequence: 1 QIREDEKEGSEQLSSRDG.....VLKTPGQSPGVGRYSPRSR 69

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/1/iaa/6A COMB.pcp.*
4: /cgn2_6/ptodata/1/iaa/6B COMB.pcp.*
5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pcp.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Length | DB ID | Description |
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| 1 | 146 | 40.6 | 855 3 | US-08-890-865A-10 |
| 2 | 139.5 | 38.8 | 992 3 | US-08-890-865A-1 |
| 3 | 113.5 | 31.5 | 900 3 | US-08-890-865A-4 |
| 4 | 72.5 | 20.1 | 1088 4 | US-09-920-804-2 |
| 5 | 72.5 | 20.1 | 1129 4 | US-09-734-674-2 |
| 6 | 68.5 | 19.0 | 441 3 | US-08-764-870-9 |
| 7 | 68.5 | 19.0 | 441 3 | US-08-980-115-9 |
| 8 | 68.5 | 19.0 | 441 4 | US-09-166-265-7 |
| 9 | 68.5 | 19.0 | 500 4 | US-09-949-016-11597 |
| 10 | 67.5 | 18.8 | 595 4 | US-09-252-991A-17434 |
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| 12 | 65 | 18.1 | 90 4 | US-09-270-767-40580 |
| 13 | 65 | 18.1 | 90 4 | US-09-270-767-55796 |
| 14 | 64 | 17.8 | 605 4 | US-09-949-016-11347 |
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| 18 | 62.5 | 17.4 | 1042 3 | US-08-928-361B-11 |
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| 20 | 62.5 | 17.4 | 1837 3 | US-08-928-361B-5 |
| 21 | 62.5 | 17.4 | 1837 4 | US-09-588-995A-5 |
| 22 | 62 | 17.2 | 348 3 | US-08-415-655-5 |
| 23 | 62 | 17.2 | 348 3 | US-08-415-655-13 |
| 24 | 62 | 17.2 | 348 3 | US-08-415-655-15 |
| 25 | 62 | 17.2 | 545 4 | US-09-248-796A-15777 |
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ALIGNMENTS

RESULT 1
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; APPLICANT: Zeng, Li
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890,865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-10

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Matches 35; Conservative 14; Mismatches 14; Indels 38; Gaps 4;
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Db 417 REAEKELEKLRVRAEEGEDADISGPSV-ISHK---MPSAQPFHFAPRYSEMGCAG 472
Qy 34 ----SYEDPQTILDDHLSVLKTPGQSPGVGRYSPRSR 69

Sequence 43189, A
Sequence 17831, A
Sequence 19940, A
Sequence 17964, A
Sequence 4, Appli
Sequence 24897, A
Sequence 17141, A
Sequence 12646, A
Sequence 29, Appl
Sequence 29, Appl
Sequence 29, Appl
Sequence 9, Appli
Sequence 9, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 2, Appli
Sequence 45990, A


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; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001018
; CURRENT APPLICATION NUMBER: US/09/734,674
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Human
; US-09-734-674-2

Query Match      20.1%; Score 72.5; DB 4; Length 1129;
Best Local Similarity 38.3%; Pred. No. 3.3;
Matches 18; Conservative 6; Mismatches 18; Indels 5; Gaps 2;

QY      4 EDEKEGSEQALSRDGPVQHPLALLPGSGSYEDPQTI-LDDHLGR 49
Db      1059 EDAKEEQSLAMEDEGTQLPL-----EGHYRDDPSVINIDMSK 1101

RESULT 6
US-08-764-870-9
; Sequence 9, Application US/08764870
; Patent No. 6236946
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
; APPLICANT: Kuehner, Peter J
; APPLICANT: Apriletti, James W
; APPLICANT: West, Brian
; TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward
; STREET: Five Palo Alto Square, 3000 El Camino Real
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/764,870
; FILING DATE: 13-DEC-1996
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,540
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,543
; FILING DATE: 13-DEC-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/008,606
; FILING DATE: 14-DEC-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Nakamura, Jackie N
; REGISTRATION NUMBER: 35,966
; REFERENCE/DOCKET NUMBER: UCAL-246/0105
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)843-5000
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 441 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear

; MOLECULE TYPE: protein
; US-08-764-870-9

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Best Local Similarity 30.3%; Pred. No. 3;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

QY      1 QIREDEKEGSEQALSRDGPVQH--PLALLPGSGSYEE-----DPQTILDDHLHLSRVLKT 53
Db      10 EVREEEKEEVAEA-----EGAPELNGGPQHAPLSSSYTDLSSSSPPSLLDQ-----LQ 59

QY      54 PGCSFGVGRYSRPSR 69
Db      60 MGCDGASCGSLNMECR 75

RESULT 7
US-08-980-115-9
; Sequence 9, Application US/08980115
; Patent No. 6266622
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Thomas S
; APPLICANT: Baxter, John D
; APPLICANT: Fletterick, Robert J
; APPLICANT: Wagner, Richard L
; APPLICANT: Kuehner, Peter J
; APPLICANT: Apriletti, James W
; APPLICANT: West, Brian L
; APPLICANT: Shiau, Andrew K
; TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
; FILE REFERENCE: UCAL-246/0205
; CURRENT APPLICATION NUMBER: US/08/980,115
; CURRENT FILING DATE: 1997-11-26
; EARLIER APPLICATION NUMBER: 08/764,870
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 60/008,606
; EARLIER FILING DATE: 1995-12-14
; EARLIER APPLICATION NUMBER: 60/008,543
; EARLIER FILING DATE: 1995-12-13
; EARLIER APPLICATION NUMBER: 60/008,540
; EARLIER FILING DATE: 1995-12-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (168)..(441)
; OTHER INFORMATION: minimal ligand binding domain
; US-08-980-115-9

Query Match      19.0%; Score 68.5; DB 3; Length 441;
Best Local Similarity 30.3%; Pred. No. 3;
Matches 23; Conservative 10; Mismatches 26; Indels 17; Gaps 4;

QY      1 QIREDEKEGSEQALSRDGPVQH--PLALLPGSGSYEE-----DPQTILDDHLHLSRVLKT 53
Db      10 EVREEEKEEVAEA-----EGAPELNGGPQHAPLSSSYTDLSSSSPPSLLDQ-----LQ 59

QY      54 PGCSFGVGRYSRPSR 69
Db      60 MGCDGASCGSLNMECR 75

RESULT 8
US-09-166-265-7
; Sequence 7, Application US/09166265
; Patent No. 6689574
; GENERAL INFORMATION:
; APPLICANT: Cummings, Richard T
; APPLICANT: Hermes, Jeffrey D
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; SEQ ID NO 40580
; LENGTH: 90
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-40580

Query Match      18.1%; Score 65; DB 4; Length 90;
Best Local Similarity 28.3%; Pred.No. 0.96;
Matches 15; Conservative 10; Mismatches 28; Indels 0; Gaps 0;

QY    2 IREDEKEGSEQLSRDGPVQHPLALLPGSYEEDPQTILDDHLSRVLKTP 54
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DB   7 LRPKQEKGSHNLNNSKNPSNDSKSIGSGVENTSSATNGPHSNSTLPTP 59
     ::|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|

RESULT 13
US-09-270-767-55796
Sequence 55796, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 55796
LENGTH: 90
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-55796

Query Match      18.1%; Score 65; DB 4; Length 90;
Best Local Similarity 28.3%; Pred.No. 0.96;
Matches 15; Conservative 10; Mismatches 28; Indels 0; Gaps 0;

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     :|::|||::|::|::|::|::|::|::|::|::|::|::|::|::|
DB   7 LRPKQEKGSHNLNNSKNPSNDSKSIGSGVENTSSATNGPHSNSTLPTP 59
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RESULT 14
US-09-949-016-11347
Sequence 11347, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11347
LENGTH: 605
TYPE: PRT
ORGANISM: Human
US-09-949-016-11347

Query Match      17.8%; Score 64; DB 4; Length 605;
Best Local Similarity 27.7%; Pred.No. 17;
Matches 18; Conservative 16; Mismatches 21; Indels 10; Gaps 5;

QY    2 IREDE---EKEGSEALSRDGAP---VOHPHALLPAGSYEEDPQT-IIDDHLRSVLKTP 54
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 25, 2005, 15:30:58 ; Search time 3.94723 Seconds
(without alignments)
964.500 Million cell updates/sec

Title: US-09-587-574-5
Perfect score: 276
Sequence: 1 LTGLGHKEQLSKGNRYRFF.....VFEEIWDDETVLPMYEGRIL 51

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 3 | 190 | 68.8 | 51 | 3 | US-08-890-865A-23 |
| 4 | 190 | 68.8 | 992 | 3 | US-08-890-865A-1 |
| 5 | 109.5 | 39.7 | 50 | 3 | US-08-890-865A-22 |
| 6 | 102 | 37.0 | 49 | 3 | US-08-890-865A-21 |
| 7 | 102 | 37.0 | 738 | 4 | US-09-949-016-10957 |
| 8 | 95.5 | 34.6 | 716 | 4 | US-09-949-016-6495 |
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| 11 | 61 | 22.1 | 601 | 4 | US-09-398-395A-42 |
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| 16 | 56.5 | 20.5 | 1018 | 4 | US-09-206-551-46 |
| 17 | 55.5 | 20.1 | 366 | 4 | US-09-270-767-48144 |
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| 19 | 55 | 19.9 | 480 | 4 | US-09-248-796A-14579 |
| 20 | 55 | 19.9 | 1055 | 2 | US-08-659-251-5 |
| 21 | 55 | 19.9 | 1055 | 3 | US-09-256-430-5 |
| 22 | 55 | 19.9 | 1055 | 5 | PCT-US96-11445-5 |
| 23 | 54.5 | 19.7 | 187 | 3 | US-09-347-878-28 |
| 24 | 54.5 | 19.7 | 376 | 4 | US-09-328-352-7587 |
| 25 | 54.5 | 19.7 | 566 | 1 | US-08-415-823-4 |
| 26 | 54.5 | 19.7 | 566 | 2 | US-09-086-662-4 |
| 27 | 54.5 | 19.7 | 1016 | 4 | US-09-625-972-24 |

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| 28 | 53 | 19.2 | 309 | 1 | US-08-465-167A-24 | Sequence 24, Appl |
| 29 | 53 | 19.2 | 309 | 2 | US-08-993-118-10 | Sequence 10, Appl |
| 30 | 53 | 19.2 | 309 | 3 | US-08-845-528C-10 | Sequence 10, Appl |
| 31 | 53 | 19.2 | 309 | 4 | US-08-627-820-24 | Sequence 24, Appl |
| 32 | 53 | 19.2 | 309 | 4 | US-09-066-281B-10 | Sequence 10, Appl |
| 33 | 53 | 19.2 | 309 | 4 | US-09-468-433C-10 | Sequence 10, Appl |
| 34 | 53 | 19.2 | 309 | 4 | US-09-392-714-29 | Sequence 29, Appl |
| 35 | 53 | 19.2 | 309 | 4 | US-09-949-016-6574 | Sequence 6574, Ap |
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| 37 | 53 | 19.2 | 1332 | 2 | US-08-971-244-2 | Sequence 2, Appli |
| 38 | 53 | 19.2 | 1332 | 3 | US-09-286-891-2 | Sequence 2, Appli |
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| 40 | 52.5 | 19.0 | 329 | 4 | US-08-981-527A-8 | Sequence 8, Appli |
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| 43 | 52.5 | 19.0 | 477 | 2 | US-08-684-594-3 | Sequence 13, Appli |
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| 45 | 52 | 18.8 | 548 | 4 | US-09-270-767-42681 | Sequence 42681, A |

ALIGNMENTS

RESULT 1
US-08-890-865A-10
; Sequence 10, Application US/08890865A
; Patent No. 6307019
; GENERAL INFORMATION:
; APPLICANT: Constantini, Franklin
; TITLE OF INVENTION: AXIN GENE AND USES THEREOF
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/890, 865A
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/54249
; TELEPHONE: (212)278-0400
; TELEFAX: (212)391-0526
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 855 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-08-890-865A-10

Query Match 71.4%; Score 197; DB 3; Length 855;
Best Local Similarity 66.7%; Pred. No. 4.5e-19;
Matches 34; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

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Db 798 VTLLGQFKELLTKGNRYRFFKVSDEFDCGVVFEVREDDTILDFEKKII 848

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; COMPUTER: IBM PC compatible

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FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6495
LENGTH: 716
TYPE: PRT
ORGANISM: Human
US-09-949-016-6495

Query Match 34.6%; Score 95.5; DB 4; Length 716;
Best Local Similarity 41.2%; Pred. No. 7.6e-05;
Matches 21; Conservative 11; Mismatches 16; Indels 3; Gaps 2;

QY 1 LTIGHFKEQLSKGNRYRYFKKASDEFACGAVFEEIWDDETLPYMEGRIL 51
DB 28 VTLDLFGVL-QRPSYKFFFKSMDDDF--GVVKEEISDDNAKLPCFNGRV 75

RESULT 9
US-08-890-865A-20
Sequence 20, Application US/08890865A
Patent No. 6307019
GENERAL INFORMATION:
APPLICANT: Constantini, Franklin
APPLICANT: Zeng, Li
TITLE OF INVENTION: AXIN GENE AND USES THEREOF
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: US
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/890,865A
FILING DATE: 10-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/54249
TELEPHONE: (212)278-0400
TELEFAX: (212)391-0526
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 51 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-08-890-865A-20

Query Match 34.4%; Score 95; DB 3; Length 51;
Best Local Similarity 39.6%; Pred. No. 3.6e-06;
Matches 21; Conservative 10; Mismatches 18; Indels 4; Gaps 2;

QY 1 LTIGHFKEQLSKK--GNRYRYFKKASDEFACGAVFEEIWDDETLPYMEGRIL 51

Db 1 VTLDLFGVLSNRPHAYKFFFKSMDDDF--GVVKEEIFDDNAKLPCFNGRV 51

RESULT 10
US-09-270-767-43189
Sequence 43189, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 43189
LENGTH: 313
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-270-767-43189

Query Match 30.8%; Score 85; DB 4; Length 313;
Best Local Similarity 33.3%; Pred. No. 0.00085;
Matches 15; Conservative 14; Mismatches 16; Indels 0; Gaps 0;

QY 2 TLGHFKEQLSKGNRYRYFKKASDEFACGAVFEEIWDDETLPY 46
DB 257 TLQRFKDYLPFRGHFRFFFKTHCEDPDSPVIOEIVNDSILPLF 301

RESULT 11
US-09-398-395A-42
Sequence 42, Application US/09398395A
Patent No. 6468772
GENERAL INFORMATION:
APPLICANT: Chappell, Joseph
APPLICANT: No. 64687721, Joseph P.
APPLICANT: Starks, Courtney M.
APPLICANT: Manna, Kathleen R.
TITLE OF INVENTION: SYNTHASES
FILE REFERENCE: 07678-025001
CURRENT APPLICATION NUMBER: US/09/398,395A
CURRENT FILING DATE: 1999-09-17
PRIOR APPLICATION NUMBER: 60/100,993
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/130,628
PRIOR FILING DATE: 1999-04-22
PRIOR APPLICATION NUMBER: 60/150,262
PRIOR FILING DATE: 1999-08-23
NUMBER OF SEQ ID NOS: 58
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 42
LENGTH: 601
TYPE: PRT
ORGANISM: Ricinus communis
US-09-398-395A-42

Query Match 22.1%; Score 61; DB 4; Length 601;
Best Local Similarity 29.2%; Pred. No. 4.6;
Matches 14; Conservative 12; Mismatches 20; Indels 2; Gaps 2;

QY 2 TLGHFKEQLSKG-NVRY-YFKKASDEFACGAVFEEIWDDETLPY 47
DB 399 TFSFEKELTAEKGSVVKYGREAFQELVRGYLYEAVWRDEGKIPSFD 446

RESULT 12
US-09-887-586A-42
Sequence 42, Application US/09887586A
Patent No. 6495354
GENERAL INFORMATION:
APPLICANT: Chappell, Joseph
APPLICANT: No. 64953541, Joseph P.

RESULT 14
US-09-903-012B-42
; Sequence 42, Application US/09903012B
; Patent No. 6569656
; GENERAL INFORMATION:
; APPLICANT: Chappell, Joseph

Query Match 22.1%; Score 61; DB 4; Length 601;
Best Local Similarity 29.2%; Pred. No. 4.6;
Matches 14; Conservative 12; Mismatches 20; Indels 2

Search completed: October 25, 2005, 15:44:27
Job time : 5.94723 secs

1115 Page Blank (uspio)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 25, 2005, 15:41:38 ; Search time 17.7177 Seconds
(without alignments)
1201.796 Million cell updates/sec

Title: US-09-587-574-5
Perfect score: 276
Sequence: 1 LTLHPKQLSKKGNRYFF.....VFEEIWDDTLPVMEGRIL 51

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1862994 seqs, 417510619 residues
Total number of hits satisfying chosen parameters: 1862994

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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| 1 | 272 | 98.6 | 155 | 14 | US-10-106-698-5828 |
| 2 | 272 | 98.6 | 347 | 15 | US-10-264-049-2846 |
| 3 | 272 | 98.6 | 843 | 16 | US-10-723-860-1797 |
| 4 | 272 | 98.6 | 843 | 16 | US-10-751-736-1116 |
| 5 | 195 | 70.7 | 842 | 9 | US-09-798-831-8 |
| 6 | 191 | 69.2 | 826 | 16 | US-10-786-720-36 |
| 7 | 191 | 69.2 | 862 | 16 | US-10-786-720-35 |
| 8 | 191 | 69.2 | 900 | 15 | US-10-374-979-91 |
| 9 | 191 | 69.2 | 900 | 15 | US-10-182-936A-91 |
| 10 | 191 | 69.2 | 900 | 16 | US-10-477-238A-670 |
| 11 | 191 | 69.2 | 900 | 16 | US-10-680-287A-670 |

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| 12 | 191 | 69.2 | 900 | 17 | US-10-477-173-670 |
| 13 | 191 | 69.2 | 912 | 15 | US-10-092-900A-270 |
| 14 | 111 | 40.2 | 211 | 15 | US-10-094-749-2052 |
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| 16 | 111 | 40.2 | 472 | 15 | US-10-112-944-300 |
| 17 | 109.5 | 39.7 | 623 | 15 | US-10-464-939-12 |
| 18 | 109.5 | 39.7 | 623 | 20 | US-11-097-143-2028 |
| 19 | 102 | 37.0 | 736 | 16 | US-10-678-639-43 |
| 20 | 95.5 | 34.6 | 595 | 15 | US-10-307-928A-18 |
| 21 | 95.5 | 34.6 | 716 | 16 | US-10-678-639-41 |
| 22 | 95 | 34.4 | 198 | 17 | US-10-938-249-465 |
| 23 | 95 | 34.4 | 670 | 16 | US-10-678-639-42 |
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| 25 | 95 | 34.4 | 695 | 16 | US-10-682-230-3 |
| 26 | 90.5 | 32.8 | 341 | 17 | US-10-938-249-464 |
| 27 | 85 | 30.8 | 745 | 20 | US-11-097-143-3015 |
| 28 | 71.5 | 25.9 | 657 | 17 | US-10-732-923-1377 |
| 29 | 69 | 25.0 | 150 | 9 | US-09-764-861-40 |
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| 33 | 61.5 | 22.3 | 528 | 16 | US-10-425-115-208133 |
| 34 | 61 | 22.1 | 601 | 9 | US-09-895-752-42 |
| 35 | 61 | 22.1 | 601 | 9 | US-09-887-586A-42 |
| 36 | 61 | 22.1 | 601 | 9 | US-09-903-012-42 |
| 37 | 61 | 22.1 | 601 | 10 | US-09-900-797-42 |
| 38 | 61 | 22.1 | 601 | 11 | US-09-893-820-42 |
| 39 | 61 | 22.1 | 1896 | 15 | US-10-296-734-393 |
| 40 | 61 | 22.1 | 5747 | 15 | US-10-296-734-405 |
| 41 | 60.5 | 21.9 | 367 | 18 | US-10-501-282-1044 |
| 42 | 60.5 | 21.9 | 1337 | 9 | US-09-803-126-1 |
| 43 | 59.5 | 21.6 | 498 | 15 | US-10-369-493-20438 |
| 44 | 59 | 21.4 | 504 | 15 | US-10-359-369-31 |
| 45 | 59 | 21.4 | 511 | 9 | US-09-773-882-2 |

ALIGNMENTS

RESULT 1
US-10-106-698-5828
; Sequence 5828, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
; FILE REFERENCE: PA005P1
; CURRENT APPLICATION NUMBER: US/10/106,698
; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 5828
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (5)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (12)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (48)

US-10-106-698-5828

Query Match 98.6%; Score 272; DB 14; Length 155;
Best Local Similarity 98.0%; Pred. No. 7.5e-29;
Matches 50; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

RESULT 2
US-10-264-049-2846
; Sequence 2846, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA133PI
; CURRENT APPLICATION NUMBER: US/10/264,049
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2846
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (204)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (240)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
US-10-264-049-2846

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Query Match      98.6%; Score 272; DB 15; Length 347;
Best Local Similarity 98.0%; Pred. No. 1.9e-28;
Matches 50; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3
US-10-723-860-1797
; Sequence 1797, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods for Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882, 0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8193
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1797
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-1797

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Query Match 98.6%; Score 272; DB 16; Length 843;
Best Local Similarity 98.0%; Pred. No. 5.3e-28;
Matches 50; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTLGHFKEQLSKGNRYRYFKKASDFACGAFVEEIWDEDTVLPMEGRIL 51
Db 786 LTLGHFKEQLSKGNRYRYFKKASDFACGAFVEEIWDEDTVLPMEGRIL 836

RESULT 4
US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10751.736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match 98.6%; Score 272; DB 16; Length 843;
Best Local Similarity 98.0%; Pred. No. 5.3e-28;
Matches 50; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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RESULT 5
US-09-798-831-8
; Sequence 8, Application US/09798831
; Patent No. US20010052137A1
; GENERAL INFORMATION:
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596.0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

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Query Match      70.7%; Score 195; DB 9; Length 842;
Best Local Similarity 66.7%; Pred. No. 1.8e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTLGHFKQSLKSGNRYRYFKKASDFACGAFEEIWDDETVLPMYEGRIL 51
Db 785 VTIIGQKEALLTKGNRYRYFKKYSDFDCGWFVEEVRDDMIPIYBEKII 835

```

```
RESULT 6
US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match      69.2%; Score 191; DB 16; Length 826;
Best Local Similarity 66.7%; Pred. No. 6e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTGHHFKEQLSKGNRYRYFKKASDEPACGAVFEEIWDDETLPVMEGRIL 51
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 769 VTGQFKELLTKGSRYYFKKVSDEPDCGWFVEVREDEAVLPVFEKII 819

RESULT 7
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US20040191818A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match      69.2%; Score 191; DB 16; Length 862;
Best Local Similarity 66.7%; Pred. No. 6.3e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTGHHFKEQLSKGNRYRYFKKASDEPACGAVFEEIWDDETLPVMEGRIL 51
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 805 VTGQFKELLTKGSRYYFKKVSDEPDCGWFVEVREDEAVLPVFEKII 855

RESULT 8
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; FILE REFERENCE: 032796-021
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
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; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91

Query Match      69.2%; Score 191; DB 15; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTGHHFKEQLSKGNRYRYFKKASDEPACGAVFEEIWDDETLPVMEGRIL 51
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 843 VTGQFKELLTKGSRYYFKKVSDEPDCGWFVEVREDEAVLPVFEKII 893

RESULT 9
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-182-936A-91

Query Match      69.2%; Score 191; DB 15; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTGHHFKEQLSKGNRYRYFKKASDEPACGAVFEEIWDDETLPVMEGRIL 51
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 843 VTGQFKELLTKGSRYYFKKVSDEPDCGWFVEVREDEAVLPVFEKII 893

RESULT 10
US-10-477-238A-670
; Sequence 670, Application US/10477238A
; Publication No. US20040221326A1
; GENERAL INFORMATION:
; APPLICANT: Babi, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
```

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; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-212
; CURRENT APPLICATION NUMBER: US/10/477,238A
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-238A-670

Query Match          69.2%; Score 191; DB 16; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTLGHFKQLSKGNRYFYFKKASDEFACGAVFEEIWDDETLPVMEGRIL 51
Db 843 VTLGQFKELLTKGSRYYFYFKKVSDFDCGVVFEEVREDAVLPVFEKII 893

RESULT 11
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: Babij, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680,287A
; CURRENT FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match          69.2%; Score 191; DB 16; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTLGHFKQLSKGNRYFYFKKASDEFACGAVFEEIWDDETLPVMEGRIL 51
Db 843 VTLGQFKELLTKGSRYYFYFKKVSDFDCGVVFEEVREDAVLPVFEKII 893

RESULT 12
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
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; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HEM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; CURRENT FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 1086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match          69.2%; Score 191; DB 17; Length 900;
Best Local Similarity 66.7%; Pred. No. 6.7e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

QY 1 LTLGHFKQLSKGNRYFYFKKASDEFACGAVFEEIWDDETLPVMEGRIL 51
Db 843 VTLGQFKELLTKGSRYYFYFKKVSDFDCGVVFEEVREDAVLPVFEKII 893

RESULT 13
US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Ji, Weizhen
; APPLICANT: Gorman, Linda
; APPLICANT: Miller, Charles E.
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gangolli, Esha A.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Fernandes, Elma R.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Liu, Yi
; APPLICANT: Anderson, David W.
; APPLICANT: Spaderina, Steven K.
; APPLICANT: Catterton, Elina
; APPLICANT: Leite, Mario W.
; APPLICANT: Zhong, Haihong
; APPLICANT: Alsobrook, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
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1 TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same
2 FILE REFERENCE: 21402-290C
3 CURRENT APPLICATION NUMBER: US/10/092,900A
4 CURRENT FILING DATE: 2002-03-07
5 PRIOR APPLICATION NUMBER: USN 60/274,322
6 PRIOR FILING DATE: 2001-03-08
7 PRIOR APPLICATION NUMBER: USN 60/283,675
8 PRIOR FILING DATE: 2001-04-13
9 PRIOR APPLICATION NUMBER: USN 60/338,092
10 PRIOR FILING DATE: 2001-12-03
11 PRIOR APPLICATION NUMBER: USN 60/274,281
12 PRIOR FILING DATE: 2001-03-08
13 PRIOR APPLICATION NUMBER: USN 60/274,191
14 PRIOR FILING DATE: 2001-03-08
15 PRIOR APPLICATION NUMBER: USN 60/325,681
16 PRIOR FILING DATE: 2001-09-27
17 PRIOR APPLICATION NUMBER: USN 60/304,354
18 PRIOR FILING DATE: 2001-07-10
19 PRIOR APPLICATION NUMBER: USN 60/279,995
20 PRIOR FILING DATE: 2001-03-30
21 PRIOR APPLICATION NUMBER: USN 60/294,899
22 PRIOR FILING DATE: 2001-05-31
23 PRIOR APPLICATION NUMBER: USN 60/287,424
24 PRIOR FILING DATE: 2001-04-30
25 Remaining Prior Application data removed - See File Wrapper or PALM.
26 NUMBER OF SEQ ID NOS: 768
27 SEQ ID NO 270
28 LENGTH: 912
29 TYPE: PRT
30 ORGANISM: Homo sapiens
31 US-10-092-900A-270

Query Match 69.2%; Score 191; DB 15; Length 912;
Best Local Similarity 66.7%; Pred. No. 6.8e-17;
Matches 34; Conservative 9; Mismatches 8; Indels 0; Gaps 0;

Qy 1 LTLGHFKEQLSKGNRYFYFKKASDFACGAVFEIWDDETLPVMEGRIL 51
Db 855 VTLGQFKELLTKGSRIFYFKKSDFFACGAVFEIWDDETLPVMEGRIL 905

RESULT 14
US-10-094-749-2052
Sequence 2052, Application US/10094749
Publication No. US20030219741A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
FILE REFERENCE: 084335/0160
CURRENT APPLICATION NUMBER: US/10/094,749
CURRENT FILING DATE: 2002-03-12
PRIOR APPLICATION NUMBER: 60/350,435
PRIOR FILING DATE: 2002-01-24
PRIOR APPLICATION NUMBER: JP 2001-328381
PRIOR FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 3381

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2052
LENGTH: 211
TYPE: PRT
ORGANISM: Homo sapiens
US-10-094-749-2052

Query Match 40.2%; Score 111; DB 15; Length 211;
Best Local Similarity 43.1%; Pred. No. 1.1e-06;
Matches 22; Conservative 12; Mismatches 15; Indels 2; Gaps 1;

Qy 1 LTLGHFKEQLSKGNRYFYFKKASDFACGAVFEIWDDETLPVMEGRIL 51
Db 153 VTLKDFKAAIDREGNHRHYFKALDPEF--GTVKKEIFHDDDAIPGWEGKIV 201

RESULT 15
US-10-094-749-2273
Sequence 2273, Application US/10094749
Publication No. US20030219741A1
GENERAL INFORMATION:
APPLICANT: ISOGAI, TAKAO
APPLICANT: SUGIYAMA, TOMOYASU
APPLICANT: OTSUKI, TETSUJI
APPLICANT: WAKAMATSU, AI
APPLICANT: SATO, HIROYUKI
APPLICANT: ISHII, SHIZUKO
APPLICANT: YAMAMOTO, JUN-ICHI
APPLICANT: ISONO, YUUKO
APPLICANT: HIO, YURI
APPLICANT: OTSUKA, KAORU
APPLICANT: NAGAI, KEIICHI
APPLICANT: IRIE, RYOTARO
APPLICANT: TAMECHIKA, ICHIRO
APPLICANT: SEKI, NAOHICO
APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOYUKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
FILE REFERENCE: 084335/0160
CURRENT APPLICATION NUMBER: US/10/094,749
CURRENT FILING DATE: 2002-03-12
PRIOR APPLICATION NUMBER: 60/350,435
PRIOR FILING DATE: 2002-01-24
PRIOR APPLICATION NUMBER: JP 2001-328381
PRIOR FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 3381
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2273
LENGTH: 437
TYPE: PRT
ORGANISM: Homo sapiens
US-10-094-749-2273

Query Match 40.2%; Score 111; DB 15; Length 437;
Best Local Similarity 43.1%; Pred. No. 2.5e-06;
Matches 22; Conservative 12; Mismatches 15; Indels 2; Gaps 1;

Qy 1 LTLGHFKEQLSKGNRYFYFKKASDFACGAVFEIWDDETLPVMEGRIL 51
Db 379 VTLKDFKAAIDREGNHRHYFKALDPEF--GTVKKEIFHDDDAIPGWEGKIV 427

Search completed: October 25, 2005, 16:16:43
Job time : 18.7177 secs

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[illegible]

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QY 121 NLKDTKTLRVAKAIYKRYIENNSVSKQLKPATKTYIRDIGIKKQIQSGVMPDQAQTEIOA 180
DB 121 NLKDTKTLRVAKAIYKRYIENNSIVSKQLKPATKTYIRDIGIKKQIQSDSIMPDQAQTEIOS 180
QY 181 VMEENAYQVFLTSDIYLEYVRSGGENTAYMSGGLSKVLGCLYPTLNEEBEWTCADLK 240
DB 181 VMEENAYQVFLTSDIYLEYVRSGGENTAYMSGGLSKVLGCLYPTLNEEBEWTCADPK 240
QY 241 CKLSPTVVLGSSKTLRATASVRSTETAENGFRSFKRSDPNVPYHVGSGVVFAPATSANDS 300
DB 241 CKLSPTVVLGSSKTLRATASVRSTETVDSGYRSFKSDPNVPYHVGSGVVFAPATSANDS 300
QY 301 ELSSDALTDDSMSTSSVDGPPYRMGSKKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
DB 301 ELSSDALTDDSMSTSSVDGIPYRVGSKKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
QY 361 EMTPEVPAFAAELISRLKLELESRSLSERLQOIREDEREKEGESEALSRDGAPOVQ 420
DB 361 EMTPEVPAFAAELISRLKLELESRSLSERLQOIREDEREKEGESEALSRDGAPOVQ 420
QY 421 HPLALLPSGSYEEDPOTILDDHLRVLKTPGCGSPGVGRYSRSPRSPDHHHHHQOCH 480
DB 421 HPLALLPSGSYEEDPOTILDDHLRVLKTPGCGSPGVGRYSRSPRSPDHH--HHHSQYH 478
QY 481 TLLSTGCKLPPVA----ACPLGGKSFLLTKQTTKHVVHHYIHHAVPKTEEAEATOR 536
DB 479 SLLPPGGKLPAAASPGACPLGGKGFVTKQTTKHVVHHYIHHAVPKTEEAEATOR 538
QY 537 VRCCLPGGTDYCYCKSHKAPPELPGQFCGSRGGTLPRKNAKGTBPGLALSARDGG 596
DB 539 VHCFCPGGSEYCYCKSHKAPETMPSEQFGSGRGSTLPRKNGKGTBPGLALPAREGG 598
QY 597 MSSAAGGPOLPGEGDRSDQVWQWMLSESRQSKPHSAQSIKSYPLESARAAPGERVS 656
DB 599 AFGGAGALQLPREEGDRSDQVWQWMLSESRQSKPHSAQSTKAYPLESARSSPGERAS 658
QY 657 RHLLIGA-SGHSRSVARAHPTQDPAMPPLTPPNTLAQLEAEACRLAEVSKPKQKCCVA 715
DB 659 RHLLWGSNGSHPTTPRAHLFTQDPAMPPLTPPNTLAQLEAEACRLAEVSKPKQKCCVA 718
QY 716 SQORDRNHSAAGAGASPFANPSLAPEDHKEPKKLASVHALQASELVVTVYFCGEEIPYR 775
DB 719 SQORDRNHSAATVQTGATPSPNPSLAPEDHKEPKKLASVHALQASELVVTVYFCGEEIPYR 778
QY 776 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWDDETLPMPYEGRIILGK 835
DB 779 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWEDETLPMPYEGRIILGK 838
QY 836 VERID 840
DB 839 VERID 843

RESULT 2
US-10-751-736-116
; Sequence 116, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 116
```

```
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-751-736-116

Query Match          90.6%; Score 4027.5; DB 16; Length 843;
Best Local Similarity 89.7%; Pred. No. 1.1e-276;
Matches 758; Conservative 31; Mismatches 49; Indels 7; Gaps 3;

QY 1 MSSAVLVLTLLPPSSSFRDAPRPVPGEGETPPCQSPSVGVKQSTKMPVSSNARNRED 60
DB 1 MSSAMLVTLCLPPSSSFRDAPRPVPGEGETPPCQPGVGKQVTKPMSSVSNTNRNED 60
QY 61 GLGEPEGGRASPSPLTRWTKSLHSLGDODGAYLFRFTFLERREKCYDVTDLDFWACNCFROM 120
DB 61 GLGEPEGGRASPSPLTRWTKSLHSLGDODGAYLFRFTFLERREKCYDVTDLDFWACNCFROM 120
QY 121 NLKDTKTLRVAKAIYKRYIENNSVSKQLKPATKTYIRDIGIKKQIQSGVMPDQAQTEIOA 180
DB 121 NLKDTKTLRVAKAIYKRYIENNSIVSKQLKPATKTYIRDIGIKKQIQSDSIMPDQAQTEIOS 180
QY 181 VMEENAYQVFLTSDIYLEYVRSGGENTAYMSGGLSKVLGCLYPTLNEEBEWTCADLK 240
DB 181 VMEENAYQVFLTSDIYLEYVRSGGENTAYMSGGLSKVLGCLYPTLNEEBEWTCADPK 240
QY 241 CKLSPTVVLGSSKTLRATASVRSTETAENGFRSFKSDPNVPYHVGSGVVFAPATSANDS 300
DB 241 CKLSPTVVLGSSKTLRATASVRSTETVDSGYRSFKRSDPNVPYHVGSGVVFAPATSANDS 300
QY 301 ELSSDALTDDSMSTSSVDGPPYRMGSKKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
DB 301 ELSSDALTDDSMSTSSVDGIPYRVGSKKQLQREMHRSVKANGQVSLPHFPRTHRLPK 360
QY 361 EMTPEVPAFAAELISRLKLELESRSLSERLQOIREDEREKEGESEALSRDGAPOVQ 420
DB 361 EMTPEVPAFAAELISRLKLELESRSLSERLQOIREDEREKEGESEALSRDGAPOVQ 420
QY 421 HPLALLPSGSYEEDPOTILDDHLRVLKTPGCGSPGVGRYSRSPRSPDHHHHHQOCH 480
DB 421 HPLALLPSGSYEEDPOTILDDHLRVLKTPGCGSPGVGRYSRSPRSPDHH--HHHSQYH 478
QY 481 TLLSTGCKLPPVA----ACPLGGKSFLLTKQTTKHVVHHYIHHAVPKTEEAEATOR 536
DB 479 SLLPPGGKLPAAASPGACPLGGKGFVTKQTTKHVVHHYIHHAVPKTEEAEATOR 538
QY 537 VRCCLPGGTDYCYCKSHKAPPELPGQFCGSRGGTLPRKNAKGTBPGLALSARDGG 596
DB 539 VHCFCPGGSEYCYCKSHKAPETMPSEQFGSGRGSTLPRKNGKGTBPGLALPAREGG 598
QY 597 MSSAAGGPOLPGEGDRSDQVWQWMLSESRQSKPHSAQSIKSYPLESARAAPGERVS 656
DB 599 AFGGAGALQLPREEGDRSDQVWQWMLSESRQSKPHSAQSTKAYPLESARSSPGERAS 658
QY 657 RHLLIGA-SGHSRSVARAHPTQDPAMPPLTPPNTLAQLEAEACRLAEVSKPKQKCCVA 715
DB 659 RHLLWGSNGSHPTTPRAHLFTQDPAMPPLTPPNTLAQLEAEACRLAEVSKPKQKCCVA 718
QY 716 SQORDRNHSAAGAGASPFANPSLAPEDHKEPKKLASVHALQASELVVTVYFCGEEIPYR 775
DB 719 SQORDRNHSAATVQTGATPSPNPSLAPEDHKEPKKLASVHALQASELVVTVYFCGEEIPYR 778
QY 776 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWDDETLPMPYEGRIILGK 835
DB 779 RMLKAQSLTLGHFKEQLSKKGNRYRYFKKASDEFACGAVFEEIWEDETLPMPYEGRIILGK 838
QY 836 VERID 840
DB 839 VERID 843

RESULT 3
US-09-798-831-8
; Sequence 8, Application US/09798831
```

Patent No. US20010052137A1
; GENERAL INFORMATION: Peter S.
; APPLICANT: KLEIN, Peter S.
; TITLE OF INVENTION: AXIN DOMAIN-LIKE POLYPEPTIDE INHIBITORS OF GLYCOGEN
; TITLE OF INVENTION: SYNTHASE KINASE 3 (BETA) ACTIVITY AND ACTIVATORS OF WNT
; TITLE OF INVENTION: SIGNALING
; FILE REFERENCE: 209596 0391/306U1
; CURRENT APPLICATION NUMBER: US/09/798,831
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 60/186,141
; PRIOR FILING DATE: 2000-03-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 8
; LENGTH: 842
; TYPE: PRT
; ORGANISM: Xenopus laevis
US-09-798-831-8

Query Match 37.2%; Score 1654.5; DB 9; Length 842;
Best Local Similarity 42.5%; Pred. No. 2.8e-108;
Matches 385; Conservative 125; Mismatches 246; Indels 149; Gaps 28;

Qy 12 DPSSSFEDAPRPVPGEGE--TPPCQPSVGKQSTKMPV-----SSNARNEDGLG- 63
Db 11 DLGSFTEDAPRPVPGEGELITDQRPSTYSLKNDGKNETATPRPDLGLY 70
Qy 64 EPEGRASPDPLTRWTKSLHSLLDQDQAYLFRFTFLEREKCVDTLDFWACNGFRQNLK 123,
Db 71 EPEGSAPTPLYKWAESLHSLLDQDQIHLFRFTLQENCADLLDFWACSGFRKLEPN 130
Qy 124 DTXT---LRVAKAIYKRYI-ENNSVSKQLKPAKTYIRDIKQOIGSVMFDOAQTEIQ 179
Db 131 DSKVEKRLKAKAIYKYVLDNSGIVSRQIKPATKSFKDCVLRQOQIDPAMFDOAQEIQ 190
Qy 180 AVMEENAYQVFLTSDIYLEVSRGENTAYMS--NGGLGSLKLCGLYPLTLINEEETWC- 236
Db 191 SMEDNTYVFLKSDIYLEYTTIGESPKNYSDOSSGSGTKGSGYLPTLINEEETWRC 250
Qy 237 -----ADLKC---KLSTVTVGLSSKTLRATASVRSSTETAEANGFRSPKRSFPVNPYHVS 287
Db 251 QGGEHERERECPSSLFQKQALDSSSHCAGSNRLSDGRE--FRPGTWREPVPYVNT 308
Qy 288 GYVPATASANDSE---LSSDALTDSSMTDSSVDGVPYPMGSKKQLOREHRSVKAN 344
Db 309 GYAGAPVTSANDSEQQSSSDA---DTMSLTDSSVDGIPPYRL--RKHYREMOESANAN 363
Qy 345 QVSLPFPTRHLPKEMTPVEPAFAELISRLKLESLRHSLEERLQOIREDEEK 404
Db 364 GRGPLPHIPRTYHMPKDI-HVDPEKFAELISRLGLVLRDREAOKLEERLKVRAEE-- 420
Qy 405 EGSEQALSSRDGAPVQHPLALLPSG-----HHHQOCHTLSTGGKL 442
Db 421 EGGDGVSSGVSF-ISHK---LPSGPPMHFNRSYSETGCVGMQIRDAHEENPESILDEH 476
Qy 443 LSRVLKTPGQSPGVGRVSPRSRSDPHHQ-----HHHQOCHTLSTGGKL 489
Db 477 VQVVMKTPGQSPGTRHSPKRSRSPDGHLSKTLPGSLGTMQTHGKHSSKSTAKVDSGNL 536
Qy 490 PPVAACPLLGGKSLTKQTTKHVHHYTHHVAVPKTEEIABEATQVRVRLCPGGTDYYC 549
Db 537 -----HHHKVHYH--VHHGGVAPKEQIDGESTQRTQTFNPNVESHN 578
Qy 550 YSK-----CKSHKPAPELPCEQFCGSGRGTLPKRNAGTBPGLSALARDGMSAAGGP 604
Db 579 YATKSRNYESMGMAPNPMDSLAYSG-KVSMLSKKNKAKADLGKESA-----SHEMP 630
Qy 605 QLPGEGRSQRQVQWQMLESERQ-----SKSKPHSAQSIKSPLESARAPGERSRHILL 661
Db 631 VVP-EDSERHOKILOMEGEKEIIRHKSHNSSSSAKQPPTELARPLSIRPGAVHPW 689
Qy 662 GASGHSRSVARAHPPTQDAMPPLTPNNTLAQL-BEACRRLAEVSK-----POKORCCVA 715

690 VSAQLNNVQPSHPFIQDPTMPNPAPNPLTQLVSKPGARLEEBEKKAAKMPQKRL--- 746
Qy 716 SQORDRNHSAAGAGASPPANPSLADPEHKEPKKLASVHALQASLVLVTVYFFCGEERIPYR 775
Db 747 -----KPKQNVSAQSPQCDNIVVAYFCGERIPYR 777
Qy 776 RMLKAQSLTLGHFKBQLSKKNYRYFKKASDEFACGAVFEIWDDETULPMYEGRLGK 835
Db 778 TWVGRVVTLGQFKELLTKKGNRYFYKVSDEFDCGVVFEVREDDMLPIYEEKIIG 837
Qy 836 VERID 840
Db 838 VEKID 842

RESULT 4
US-10-786-720-35
; Sequence 35, Application US/10786720
; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AM101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 35
; LENGTH: 862
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-35

Query Match 36.4%; Score 1619.5; DB 16; Length 862;
Best Local Similarity 41.9%; Pred. No. 8.9e-106;
Matches 385; Conservative 127; Mismatches 251; Indels 155; Gaps 30;

Qy 12 DPSSSFEDAPRPVPGEGEETPPCQPSVGKQSTKMPVS-----LVSTDRPASYPSCSGKGVIGKETSTAT 60
Db 11 DLGASFTEDAPRPVPGEGE-----LVSTDRPASYPSCSGKGVIGKETSTAT 60
Qy 55 ARNEDGLG-EPEGRASPDPLTRWTKSLHSLLDQDQAYLFRFTFLEREKCVDTLDFWFA 113
Db 61 PRSDLDLGYEPEGSAPTPLYKWAESLHSLLDQDQISLFRFTFLQEGCADLLDFWFA 120
Qy 114 CNGFRQNLKDT---KTLRVAKAIYKRYI-ENNSVSKQLKPAKTYIRDIKQOIGSV 169
Db 121 CTGFRKLEPCDSNEEKELKARAIYKYVLDNNGIVSRQTKPATKSFIKGKICMLDPA 180
Qy 170 MFDQAQTEIQAVMEENAYQVFLTSDIYLEVSRGENTAYMS--NGGLGSLKLCGLYPT 227
Db 181 MFDQAQTEIQATMEENTYPSFLKSDIYLEYTRTGESPKVCSQSSGSGTKGSGYLPT 240
Qy 228 LNEEETWC-----ADLKCLSPVTVGLSSKTLRATASVRSSTETAEANGFRSPKR 276
Db 241 LNEDEEWRKCDMDDEDGRDAAPPCLRL-PQKLLLETAAPRVSSRRRYSEGREPRYGSWR- 298
Qy 277 SDPVNPHYVSGYVFPATASANDSE---LSSDALTDSSMTDSSVDGVPYPMGSKKQL 333
Db 299 -EPVNPYYNAGYALAPATASANDSEQQSSSDA---DTLSLTDSSVDGIPPYRI--RKQH 352
Qy 334 QREHRSVKANGQVSLPHFPRTHLPKEMTPVEPAFAELISRLKLESLRHSLEER 393
Db 353 RREMQESQVQNGRVPLPHIPRTYRVPKEVR-VEPQFAELIHLRLAEVQRTREAEKLEE 411
Qy 394 RLQOIREDEEKEGSEQALSSRDG-----APVOH--PLALLPSG-----SYBEDPQTI 438
Db 412 RLKVRMEEGEDGDPS-SGPPGCHKLPAPAWHPPRCVDMGCAGLRDAHEENPESI 470
Qy 439 LDDHLRLVLTGPGQSPGVGRYSPRSRSPDHHHHQOCHTLSTGGKLPVVAACPLL 498

Db 471 LDEHVQVLTPTGQSPG-----PGRSPDSGVH-----AKMPVALGGAAS 511
Qy 499 GGSFLLTKQTK-----HVHHYIHHHVPKTEIEAEATQVRCLCPGGTDYY 548
Db 512 GHGKHPKSGAKLDAAGLHHRHVVHHV--HHSTARPKQVEAEATRAQSSPAWGLEPH 569
Qy 549 CYSK-----CKSHPKAPEPLPGQFCGSRGGTLPKRNAKTEPGLALSARDGMSAAGG 603
Db 570 SHGARSRGYSVGAAPNASDGLAHSG-KVGVAACKRNAKAESGSAST-----617
Qy 604 POLPG--EEDRGQDVQWMLLESERQ---SKSPHSAQSIKSYPLESARAAPGERVSRH 658
Db 618 -EVPGASEDAKQKQINQWIIIEGEKEISRHRRTGHSGSGTRKQPHENSFP-----LSLE 671
Qy 659 HLGASHSHSVARAHPFTQDAMPPLTPPNTLAQLEEAECRLAEVSK-----PQQRCC 713
Db 672 HPWAGPOLRTSVQPSHLFIQDTPMPHPAPNPLTLQLEEARRRLEEBEKRASRAPSKQRYV 731
Qy 714 VASQQRDNHSAQAQASPFANP-----SLAPEDHKEPKKLASVHALQASELV 762
Db 732 QEVNRR-----GRACVRPACAPVLHVPAVDMSELSETETRSQRKVGGSQAQCDISIV 784
Qy 763 VTYFFCGEEIPIYRMLKAQSLTLGHFKQESKKGNTYRYFFKKAASDBFACGAVFEEIWDDE 822
Db 785 VAYFCEGEPYPTLVNRAVTLTGQFKELLTKGSYRYFFKKYSDSDFDCGVFEVREDE 844
Qy 823 TVLPMYEGRLGKVERID 840
Db 845 AVLVPFEKIIGKVEKD 862

RESULT 5

US-10-092-900A-270
; Sequence 270, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Ji, Weizhen
; APPLICANT: Gorman, Linda
; APPLICANT: Miller, Charles E.
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gangolli, Esha A.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Fernandes, Elma R.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Liu, Yi
; APPLICANT: Anderson, David W.
; APPLICANT: Spaderna, Steven K.
; APPLICANT: Catterton, Elina
; APPLICANT: Leite, Mario W.
; APPLICANT: Zhong, Haihong
; APPLICANT: Alsobrook, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-290C
; CURRENT APPLICATION NUMBER: US/10/092,900A
; CURRENT FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: USSN 60/274,322

; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/283,675
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: USSN 60/338,092
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: USSN 60/274,281
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/274,191
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/325,681
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: USSN 60/304,354
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: USSN 60/279,995
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: USSN 60/294,899
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: USSN 60/287,424
; PRIOR FILING DATE: 2001-04-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 768
; SEQ ID NO 270
; LENGTH: 912
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-092-900A-270

Query Match 36.4%; Score 1617; DB 15; Length 912;
Best Local Similarity 41.4%; Pred. No. 1.5e-105;
Matches 384; Conservative 125; Mismatches 246; Indels 172; Gaps 29;

Qy 12 DPSSSFEDAPRPVPGEGETPPCQPSVGKQSTKMPVPS-----SN 54
Db 60 DLGASFTEDAPRPVPGEGE-----LVSTDPRPASYSFCGKGVGKGETSTAT 109
Qy 55 ARNEDGLG-EPEGRASPDSPLTRWTKSLHSLDGDQAYLFRFTLEREKCVDTLDFWFA 113
Db 110 PRSDLDLGEPEGSASPTPYLKWAESLHSLDDQDGLSFRFTFLKQGCADLLDFWFA 169
Qy 114 CNGFROMNLKDT---KTLRAKAIYKRYI-EENNVSVKQKPKATYIIRDGKIKQIGSV 169
Db 170 CTGFRKLEPCDSNEEKRLARAIYKRYITLDNNGIVSRQTKPATKSFIRGCMKQIDPA 229
Qy 170 MFDQAQTEIQAVMEENAYQVLTSDIYLEVSVSGGENTAYMS--NGGLSLKVLGCLYPT 227
Db 230 MFDQAQTEIQATMEENTYPSFLKSDIYLEYTRTGESPKVCSDQSSGSGTGKISYLP 289
Qy 228 LNEEEEWTC-----ADLKCKLSPTVVGLSKTLRATASVRSTETAENGFRSFKR 276
Db 290 LNEDEEMKCDQDDEDDGRDAAPPGLR-PQKLLLETAAPRVSSRRYSSEGREFRYGSWR- 347
Qy 277 SDPVNPYHVGSGYVAFAPATSANDSE---LSSDALTDSDMSMTDSSVDGPPYRMGSKQL 333
Db 348 -EPVNPYYNAGYALAPATSANDSEQQSLSSDA--DTLSLTDSSVDGIPPYRI--RKQH 401
Qy 334 QREMHRSVKANGQVSLPHEPRTHLRPLKEMTPVEPAFAAELSLRLEKLELESRHSLE 393
Db 402 RREMQUESVQNGRVPLPHIPRTYRVPKVR-VEPQKFAELIHLREAVORTREAEKLEE 460
Qy 394 RLQQRREDEEKEGSEQALSRRDGAPVQ-----HPLALLFS-----G 429
Db 461 RLKRVMEEEGE-----DGDPSGPPGPCCHKLPAPAWHHFPPLCWTWACAGLRD 511
Qy 430 SYEEDPQTLLDHLNRVLTGQCSQSPGVGRYSPRSRSPDHQHQQHHHQQOCHLLSTGGKL 489
Db 512 AHEENDESILDEHVQVRLTPTGRQSPG-----PGHRSPTSNGHV-----AKM 552
Qy 490 PPVAACTPLGGKSFLLTKQTK-----HVHHYIHHHVPKTEIEAEATQVRVC 539
Db 553 PVALGAASGHGKHPKSGAKLDAAGLHHRHVVHHV--HHSTARPKQVEAEATRAQS 610
Qy 540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGQFCGSRGGTLPKRNAKTEPGLALSARD 594

Db 611 SPWGLEPHSHGARSRCYSESVGAAPNASDGLAHS-KVGVACKRNAKKAESKASST-- 667
Qy 595 GGMSSAAGGQPLPG--EBGDRSDQVQWQWMLSEBQ---SKSKPHSAQSTKSYPLESARA 649
Db 668 -----EVPQASDAEKQKIMQWITTEGEKEISRHRRTGHSGSGTRKPKQPHENSRRP 717
Qy 650 APCRVSRRHLLGASGHSRVARAHPPTQDPAMPPLTPPNTLAQLEACRRLAEVSK-- 706
Db 718 -----LSLEHPWAGPQLRTVQSHLFIQDPTWPPHAPNPLTLQLEARRRLEEBEKRAS 772
Qy 707 --PQKORCCVASQORDNRHNSAAGQAGASPPANP-----SLAPEDHKPKKLASV 753
Db 773 RAPSQRVQVEMR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQRKVGCG 825
Qy 754 HALQASLEVTVYFCGEEIPIYRMLKAQSLTLGHFKQSLKGNRYYPFKKASDEPACGA 813
Db 826 SAQPCDSIVVAYVFCGEPPIYRMLKAQSLTLGHFKQSLKGNRYYPFKKASDEPACGA 885
Qy 814 VFEIWDDETLPMEGRILGKVERID 840
Db 886 VFBEVREDAVLPVFEKIIGKVEKD 912

RESULT 6

US-10-264-049-2846
; Sequence 2846, Application US/10264049
; Publication No. US20040005579A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P133P1
; CURRENT APPLICATION NUMBER: US/10/264,049
; PRIOR FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/18569
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: US 60/209,467
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 4360
; SOFTWARE: Patent in Ver. 3.1
; SEQ ID NO 2846
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (204)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (240)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
US-10-264-049-2846

Query Match 36.3%; Score 1615.5; DB 15; Length 347;
Best Local Similarity 86.5%; Pred. No. 4.7e-106;
Matches 300; Conservative 13; Mismatches 33; Indels 1; Gaps 1;
Qy 495 CPLLGKSFLLKQTTKHVHHYIHHVAVPTKEIEABATQVRCLCPGGTDYCYSKCK 554
Db 1 CPLLGKGFVTKQTTKHVHHYIHHVAVPTKEIEABATQVRCLCPGGTDYCYSKCK 60
Qy 555 SHKAPLEPLPQEGFCGSGRGTLPKRNAGTSPGLALSARDGMSAAGGPPOLPEEGDRS 614
Db 61 SHKAPLEPLPQEGFCGSGRGTLPKRNAGTSPGLALSARDGMSAAGGPPOLPEEGDRS 120
Qy 615 QDVQWMLSESRQSKPHSAQSTKSYPLESARAAPGERSRHLLGA--SGHSRSVARA 673
Db 121 QDVQWMLSESRQSKPHSAQSTKSYPLESARAAPGERSRHLLGA--SGHSRSVARA 180
Qy 674 HPFTQDPAMPPLTPPNTLAQLEACRRLAEVSKPKQRCVQASQORDNRHNSAAGQAGASP 733
Db 181 HPFTQDPAMPPLTPPNTLAQLEACRRLAEVSKPKQRCVQASQORDNRHNSAAGQAGASP 240

Qy 734 FANPSLAPDHKEPKKLASVHALQASELVTVYFFCGEEIPIYRMLKAQSLTLGHFKQSL 793
Db 241 FANPSLAPDHKEPKKLASVHALQASELVTVYFFCGEEIPIYRMLKAQSLTLGHFKQSL 300
Qy 794 KGNTRYYPFKKASDEPACGAVFEEIWDDETLPMEGRILGKVERID 840
Db 301 KGNTRYYPFKKASDEPACGAVFEEIWDDETLPMEGRILGKVERID 347

RESULT 7

US-10-786-720-36
; Sequence 36, Application US/10786720
; Publication No. US2004019181A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: O'Toole, Margot
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 031896-023000 (AMI101331L)
; CURRENT APPLICATION NUMBER: US/10/786,720
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 21135
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 36
; LENGTH: 826
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-786-720-36

Query Match 36.3%; Score 1612.5; DB 16; Length 826;
Best Local Similarity 42.1%; Pred. No. 2.6e-105;
Matches 380; Conservative 124; Mismatches 239; Indels 159; Gaps 29;
Qy 12 DPSSFPEDAPRPVPCGEGETPCCPQSPGVSKVOSTKMPVPS-----SN 54
Db 11 DLGASFTEDAPRPVPCGEGETPCCPQSPGVSKVOSTKMPVPS-----SN 60
Qy 55 ARENEDGLG-EPEGRASPDSPLTRWTKSLHLLGDODGAVLFRFLREKCVDTLDFWFA 113
Db 61 PRSDLDLGYEPEGSASPTPPYKWAESLHLLDDQDGLSLFRFLREKCVDTLDFWFA 120
Qy 114 CNGFRQWNLKDT---KTLRAVAKAIYKRYI--ENNSVSVSKLKPATKTVIRGIIKQQTGSV 169
Db 121 CTGFRKLEPCDSNEEKRLKLARIYKYILDNNGIVSRQTKPATKSPKIGKIMQLDPA 180
Qy 170 MFDQAQTEIOAVNEENAYQVFLSDIYLEVRSRGENTAYMS--NGGLGSLKVLGCVLPT 227
Db 181 MFDQAQTEIOAVNEENAYQVFLSDIYLEVRSRGENTAYMS--NGGLGSLKVLGCVLPT 240
Qy 228 LNEEEETWC-----ADLKCKLSPVTVGLSSKTLRATASVRSSTETAEENGFRSPKR 276
Db 241 LNEDEEWKCDQDMDDEDGROAAPPGRLL-PQKLLLETAAPRVSSRRYSEGEFRYGSWR- 298
Qy 277 SDPVNPHYVHGSGVYFAPATANDSE---LSSDALTDSDMSMTDSSVDGVPPYRNGSKQL 333
Db 299 -EPVNPYVAVAGYALATANDSEQQSLSSDA---DTLSLTDSSVDGIPYRI--RKQH 352
Qy 334 QREMRSVKANGQVSLPHFPHRTHRLPKEMTPVEPAFAAEELISLEKLELESRHSLEE 393
Db 353 RREMOESQVQNGRVPLPHIPRTYRVAPKEVR-VEPQKFAEELIHLREAVQRTREAEKLEE 411
Qy 394 RLQOIRDEEKEGSEQALSRRDG-----APVOH--PLALLPSG-----SYBEDPOTI 438
Db 412 RLKVRNMEEGEDGDPS--SGPPGCHKLPPAPAMHHPPPRCVDMGCGAGLRDAHENPESI 470
Qy 439 LDDHLRVLKTPGQSPGVGRYSRSPRSDPHHHQHQQCHTLLSTGGKLPVPAACPLL 498
Db 471 LDEHVQVRLTPGQSPG-----PGHSPDSGHV-----AKMPVALGGAAS 511
Qy 499 GKGSLTKQTTK-----HVHHYIHHVAVPTKEIEABATQVRCLCPGGTDYCY 548
Db 512 GHGKHVPKSGAKLDAAGLHHHRHHVHV--HHSTARPEQVEAEATRAQSSFAWGLEPH 569

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QY 549 CYSK-----CKSHPKAPEPLPGFQCGSRGGTLPKRNAKTERPGLALSARDGMSAAGG 603
Db 570 SHGARGYSGYSGAAPNASDGLAHSG-KVGVAACKRNAKKAESGKSAST----- 617
QY 604 PQLPG--EEGDRSQDVQWMLSERO---SKSKPHSAQSIRKSYPLESARAAPGERVSRH 658
Db 618 -EVPGASEDAEKQKTMQWIEGEKISRHRRTGCHSGSGTRKPKPHENSRRP-----LSLE 671
QY 659 HLGASGHSRVARAHPTODPAMPPLTPPNTLAQLEEAACRRLAEVSKPKQRCVASQ 718
Db 672 HPWAGPOLRTSVQSHLFIQDTPMPHPAPNPLTLQLEEARRLLEE---BEKRASRAPSKQ 728
QY 719 RDRNHSAAAGAGASPANPSLAPEDHKEPKKLASVIALQASLVVTFYFCGEBEIPYRML 778
Db 729 RTRSRQKVGGSQAP-----CDSIVVAYYFCGEBEIPYRTLV 764
QY 779 KAQSLTLGHFKEQLSKGNRYFYFKKASDFACGAVFEEIWDDETLPVMEGRILKVER 838
Db 765 RGRAVTLGQPKELLTKKGSRYFYFKKVSDFDCGVVFEVREDEAVLPVFEELIKGVEK 824
QY 839 ID 840
Db 825 VD 826

RESULT 8
US-10-374-979-91
; Sequence 91, Application US/10374979
; Publication No. US20030219793A1
; GENERAL INFORMATION:
; APPLICANT: John P. Carulli et al.
; TITLE OF INVENTION: THE HIGH BONE MASS GENE OF 11q13.3
; CURRENT APPLICATION NUMBER: US/10/374,979
; CURRENT FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: US 09/544,398
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/543,771
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 09/229,319
; PRIOR FILING DATE: 1999-01-13
; PRIOR APPLICATION NUMBER: US 60/071,449
; PRIOR FILING DATE: 1998-01-13
; PRIOR APPLICATION NUMBER: US 60/105,511
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 109
; SEQ ID NO 91
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-374-979-91
```

```
Query Match 36.1%; Score 1605; DB 15; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;
```

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QY 12 DPSSSFEDAPRPVPFGEGETPPCPQSVGKVQSTKPMFVS-----LVSTDPRPASYSFCSGKGVIGKGETSTAT 97
Db 48 DLGASTEDAPRPVPFGEGE-----LVSTDPRPASYSFCSGKGVIGKGETSTAT 97
QY 55 ARNEOGLG-EPGRASPDSPLTRWTKSLHSLLDGQDQGVLFRTFLEREKCVDTLDFWFA 113
Db 98 PRSDLDLGYEPEGSASPTPYLKWAEBSLHSLLDQDQGISLFRFLKQEGCADLLDFWFA 157
QY 114 CNGFROWNLKDT---KTLRAKAIYKRYI-ENNSVVSQKLPKATKYIRDGIKKQIGSV 169
Db 158 CTGFRKLEPCDSNEEKKLARAIIYKYLIDNNGIVSRQTKPATKFIKGCIMKQLIDPA 217
QY 170 MFDQAQTEIQAVMEENAYQVFLTSDIYLEYVRSGGENTAYMS--NGGLSKLVLCGYLPT 227
Db 218 MFDQAQTEIQATMEENTYPSFLKSDIYLEYTRTGSSEPKVCSQSSSGSGTGKISGYLPT 277
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QY 228 LNEEBEWTCT-----ADLKCKLSPTVVLGSLKTLRATASVRSTETAENGPRPSFKR 276
Db 278 LNEDEEWKCDQMDDEDDGRDAAPGRL-POKULLETAAPRVSSRRYSRGRFRYGSWR- 335
QY 277 SDPVNPHYGVGYPFAPATSANDSE---LSSDALTDDSDMSMTDSSVDGYPYRMGSKQL 333
Db 336 -EPVNPYYNAGYALAPATSANDSEQOSSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH 389
QY 334 QREMRHSVKANGCVSLPHPRTHRLPKEMTPVEPAFAAELISRLKLEKLEESRHSLEE 393
Db 390 REEMOESAQVNGRVLPHPHPRTRYRVPKEVR-VEPOKFAEELIHRLEAVQRTREAEKLEE 448
QY 394 RLQOITREDEEKGSEQALSRRDQAPVQ-----HPLALLPS-----G 429
Db 449 RUKRVMESEGE-----DQDSSGGPGGCHKLPPAPAWHHFPPLRCWTWACAGLRD 499
QY 430 SYEEDPQTLDDHLRVLKTPGCGSVGRYSRPSRSDPHHHQHHHHQOCHLLTLLSGKL 489
Db 500 AHEENPESILDEHVQRVLRITTCRQSPG-----PGHRSPPDSGHV-----AKM 540
QY 490 PPVAA CPLLGKGSFLTQTK-----HVHHYIHHHAVPKTKEIEABATORVRC 539
Db 541 PVALGGAASGHGKVPKSGAKLDAAGLHHRHVHHV--HHSTARPKQEVEAEATRAQS 598
QY 540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGFQCGSRGGTLPKRNAKTEPGLALSARD 594
Db 599 SPFWGLEPHSHGARGSYSGAAPNASDGLAHSG-KVGVAACKRNAKKAESGKSAST-- 655
QY 595 GGMSSAAGGPQLPG--EEGDRSQDVQWMLSERO---SKSKPHSAQSIRKSYPLESARA 649
Db 656 -----EVPGASEDAEKQKTMQWIEGEKISRHRRTGCHSGSGTRKPKPHENSRRP 705
QY 650 APCRVSRRHLLGASGHSRVARAHPTODPAMPPLTPPNTLAQLEEAACRRLAEVSK--- 706
Db 706 -----LSLEHPWAGPOLRTSVQSHLFIQDTPMPHPAPNPLTLQLEEAARRLEEEKRA 760
QY 707 --PQQRCCVASQQRDRNHSAAAGAGASPFANP-----SLAPDHKEPKKLASV 753
Db 761 RAPSKQRYVQEVNRR-----GRACVRPACAPVLHVPAVSDMELSETETRSQKVG 813
QY 754 HALQASELVVTVYFFCGEEIPIYRRMLKAQSLTLGHFKEQLSKGNRYRYFKKASDEFACGA 813
Db 814 SAQPCDSIVVAYYFCGEPYRTLVGRAVTLGQPKELLTKKGSYRYFKKVSDEFDCGV 873
QY 814 VFEETWDDTLPVMEGRILGKVERID 840
Db 874 VFEEVREDEAVLPVFEELIIGKVKVD 900

RESULT 9
US-10-182-936A-91
; Sequence 91, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
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| | | | | | | | | | | | |
|---|-----|--|---------------------------------|--|--|---|--|---|--|---|--|
| ; SOFTWARE: FastSEQ for Windows Version 4.0 | | ; SEQ ID NO 91 | | ; LENGTH: 900 | | ; TYPE: PRT | | ; ORGANISM: Homo sapiens | | US-10-182-936A-91 | |
| Query Match | | 36.1%; Score 1605; DB 15; Length 900; | | Best Local Similarity | | 41.2%; Pred. No. 1e-104; | | Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29; | | | |
| ; RESULT 10 | | US-10-477-238A-670 | | ; Sequence 670, Application US/10477238A | | ; Publication No. US20040221326A1 | | ; GENERAL INFORMATION: | | | |
| ; APPLICANT: Babij, Philip | | ; APPLICANT: Yaworsky, Paul | | ; APPLICANT: Bex, Frederick J. III | | ; APPLICANT: Bodine, Peter Van Nest | | ; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation | | | |
| ; FILE REFERENCE: 032796-212 | | ; CURRENT APPLICATION NUMBER: US/10/477,238A | | ; CURRENT FILING DATE: 2003-11-10 | | ; PRIOR APPLICATION NUMBER: US 60/290,071 | | ; PRIOR FILING DATE: 2001-05-11 | | ; PRIOR APPLICATION NUMBER: US 60/291,311 | |
| ; PRIOR FILING DATE: 2001-05-17 | | ; PRIOR APPLICATION NUMBER: US 60/353,058 | | ; PRIOR FILING DATE: 2002-02-01 | | ; PRIOR APPLICATION NUMBER: US 60/361,293 | | ; NUMBER OF SEQ ID NOS: 812 | | ; SOFTWARE: FastSEQ for Windows Version 4.0 | |
| ; SEQ ID NO 670 | | ; LENGTH: 900 | | ; TYPE: PRT | | ; ORGANISM: Homo sapiens | | US-10-477-238A-670 | | | |
| Query Match | | 36.1%; Score 1605; DB 16; Length 900; | | Best Local Similarity | | 41.2%; Pred. No. 1e-104; | | Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29; | | | |
| Qy | 12 | DPSSSPREDAPRPVPVEGETPPCPQSVGVKQSTKMPVVS | -----LVSTDPASYSFCSGKGVIKGETSTAT | SN 54 | | | | | | | |
| Db | 48 | DLGASFTEDAPRPVPVEGE | -----LVSTDPASYSFCSGKGVIKGETSTAT | 97 | | | | | | | |
| Qy | 55 | ARNEDGLG-EPGRASPDSPTRWTKSLHSLGDQDQAYLFRFLERKCVDTLDFWFA | 113 | | | | | | | | |
| Db | 98 | PRSDLDLGYEPEGSASPTPPYLKWAESLSLDDQDQISLFRFLFKQEGCADLDFWFA | 157 | | | | | | | | |
| Qy | 114 | CNGFRQNLKDT---KTLRVAKAIYKEYI--ENNSVSVSKLKPKATKTVIRDGKIKQKQIGSV | 169 | | | | | | | | |
| Db | 158 | CTGFRKLEPCDSNEEKRLKARAIYKIILDNNGIVSRQTKPATKSFIKGCIKQLIDPA | 217 | | | | | | | | |
| Qy | 170 | MFOAQTEIOAVMEENAYQVFLTSDIYLVRSRGENTAYMS--NGGLGSLKVLGCGYLP | 227 | | | | | | | | |
| Db | 218 | MFOAQTEIOATMEENTYPSFLKSDIYLVTRTGSSEPKVCSQDSSGSGTGKIGSYLP | 277 | | | | | | | | |
| Qy | 228 | LNEEEWTC-----ADLKCLSPVTVGLSSKTLRATASVRSRTAENGFRSPKR | 276 | | | | | | | | |
| Db | 278 | LNEDEEWKCDQDMDDEDDGRDAAPPGR-L-PQKLLLETAAPRVSSRRYSSEGREFRYGSWR- | 335 | | | | | | | | |
| Qy | 277 | SDPNPVHVGSGYVFPATANDSE---LSSDALTDSSMTDSSVDGVPYRMGSKQL | 333 | | | | | | | | |
| Db | 336 | -EPVNPYYNAGYALAPATANDSEQQSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH | 389 | | | | | | | | |
| Qy | 334 | QREHRSVKANGQVSLPHFPRTHRLPKEMTPVEPAFAAELISRLKLELESRHSL | 393 | | | | | | | | |
| Db | 390 | REMOESAQVNGRVPLPHIPTYRVKPEVR-VEPQKFAEELIHLRLEAVQRTREAEKLE | 448 | | | | | | | | |
| Qy | 394 | RLQOIREDEKEGSEQALSSRDGPVQ-----HPLALLPS-----G | 429 | | | | | | | | |
| Db | 449 | RLKVRMEEGE-----DGDPSGPPGCHKLPPAPAWHHFPPLRCWTWACAGLRD | 499 | | | | | | | | |
| Qy | 430 | SYEDPOTILDDHLRVLKTPCGSPGVRSRSPDHHHQQHHHQQCHTLSTGGKL | 489 | | | | | | | | |
| Db | 500 | AHEENPESILDEHVQVRLTGTGROSPG-----PGRSPDSGHV-----AKM | 540 | | | | | | | | |
| Qy | 490 | PPVAACPLLGKGSFLTKQTTK-----HVHHYIHHHVAVPKTEEIEAEATQVRVC | 539 | | | | | | | | |
| Db | 541 | FVALGGAASGHGKHPKSGAKLDAAGLHHHRHVHHV--HHSTARPKQVQEAETRAQS | 598 | | | | | | | | |
| Qy | 540 | LCPGTDYCYSK-----CKSHPKAPEPLPGEGFCGSRGGTLPRKNAKTGTEPGALSGARD | 594 | | | | | | | | |
| Db | 599 | SPWGLEPHSHGARSRGYSVGAAPNADGLAHSG-KVGVACKRNAKKAESGKSAST-- | 655 | | | | | | | | |
| Qy | 595 | GMSSAAGGPPOLPG--EGDRSQDVQWMLSEHQ---SKKPHSAQIRKSYPLESARA | 649 | | | | | | | | |
| Db | 656 | -----EVPGASEDAENKQIMOWIEGEKEISRHRTGHGSGSTRKXPQPHENSRP | 705 | | | | | | | | |
| Qy | 650 | APGERVSRHLLGASGHSRVARAHPTQDPAMPPLTPNTLAOLEACRLAEVSK--- | 706 | | | | | | | | |
| Db | 706 | -----LSLEHPWAGQLRTSVQPSHLFTQDPTMPHPAPNPLTQLEARRLEBEKAS | 760 | | | | | | | | |
| Qy | 707 | -POKORCCVASQQRDRNHSAGAGASFPANP-----SLAPEDHKEPKLASV | 753 | | | | | | | | |
| Db | 761 | RAPSKQVQVEMRR-----GRACVTPACAPVLHVVPVAVSDMELSETETRSQRKGGG | 813 | | | | | | | | |
| Qy | 754 | HALQASELVVYFFCGEIPYRMLKAQSLTLGHFKQESLKGNYRYFFKASDEBFACGA | 813 | | | | | | | | |
| Db | 814 | SAQPCDSIVWAYYFCGEIPYRTLVRGRAVTLGQFKELLTKKGSYRYFFKVSDEFGCV | 873 | | | | | | | | |
| Qy | 814 | VPEELWDETVLPMYEGHILKVERID | 840 | | | | | | | | |

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Db      541 PVALGGAASGHGKHPKSGAKLDAAGLHHRHHVHHV--HHSTARPKQVEAEATRAQS 598
Qy      540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGEFCGSRGGLTPKRNAKGTPEGLALSARD 594
Db      599 SFAWGLEPHSHGARSRGYSESVGAAPNASDGLAHSG-KVGVACKRNAKKAESGKSAST-- 655
Qy      595 GGMSSAAGGPQLPG--REGDRSDVQWQWMLSESRQ---SKSKPHSAQSIRKSYPLESARA 649
Db      656 -----EVPGASEDAEKQIMQWIIIEGKEISRHRRTGHSGSGTRKPOPHENSRRP 705
Qy      650 APGERVSRHLLGASGHSRVARAHPFTQDPAMPPLTPNNTLAQLBEACRRLAEVSK--- 706
Db      706 -----LSLEHPWAGPQLRTSVQPSHLFIQDTPMPHPAPNPLTLQLEBEARRRLEEEBKAS 760
Qy      707 --POKQRCVSAQOORDNRNHAAGASGASPANP-----SLAPBDHKPEPKKLAV 753
Db      761 RAPSKQRYVQEVNRR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQKVG 813
Qy      754 HALQASLVVYFFCGEEIPYRMLKAQSLTLGHFKQLSKKNRYRYKKADEFACGA 813
Db      814 SAQPCDSIVWAYVYFCGEPIPYRTLVRGRAVTLGQFKELLTKGYSRYRYFKVSDPEDCGV 873
Qy      814 VFEEIWDDETVLPMEYGRILGKVERID 840
Db      874 VFEEVREDEAVLPVFEKIIGKVEKD 900

RESULT 11
US-10-680-287A-670
; Sequence 670, Application US/10680287A
; Publication No. US20040244069A1
; GENERAL INFORMATION:
; APPLICANT: BabiJ, Philip
; APPLICANT: Yaworsky, Paul
; APPLICANT: Bex, Frederick J. III
; APPLICANT: Bodine, Peter Van Nest
; TITLE OF INVENTION: Transgenic Animal Model of Bone Mass Modulation
; FILE REFERENCE: 032796-179
; CURRENT APPLICATION NUMBER: US/10/680, 287A
; PRIOR FILING DATE: 2003-10-08
; PRIOR APPLICATION NUMBER: PCT/US02/14876
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 812
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 670
; LENGTH: 900
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-680-287A-670

Query Match      36.1%; Score 1605; DB 16; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;

Qy      12 DPSSSFREDAPRPVPVGEGETPPCPSGVKGKSTKMPVMS-----SN 54
Db      48 DLGASFTEDAPRPVPVGEGETPPCPSGVKGKSTKMPVMS-----LVSTDPDASVFCSGKGVGIKGETSTAT 97
Qy      55 ARNEOGLG-EPGRASPDSPLTRWTKSLHSLGDDGAVLFTFLERKCVDTLDFWEA 113
Db      98 PRSDLDLGYEPEGASPTPYLKAWSLHSLDDQDGLSLFTFLKQEGCADLLDFWEA 157
Qy      114 CNGFROWNLKDT---KTLRVAKAIYKRYI--ENNSVVSQKLPKATKYIRDGKQKQIGSV 169
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Db      158 CTGFRKLEPCDSNEEKRLKLARAIYKRYITLDNNGIVSRQTKPATKSFIKGCIKMLQILDPA 217
Qy      170 MFDQATQTELOAWEENAYQVFLTSDIYLEYVSRGCGENTAYMS--NGGLGSLKVLQGYLPT 227
Db      218 MFDQATQTELOAWEENTYPSFLKSDIYLEYTGTGSESPKVCSDQSGSGTGKIGSYLPT 277
Qy      228 LNEEEEWTC-----ADLKCKLSPVTVGLSSKTLRATASVSRSTRTAENGFRSFKR 276
Db      278 LNEDEWKCDDQMDDEDDGRDAAPGRL-PQKLLLETAAPRVSSRRYSEGRFRYGSWR- 335
Qy      277 SDPNVPHYVSGYVAPATSANDSE---LSSDALTDDSMSTDDSSVDGVPVPMGSKQL 333
Db      336 -EPVNPYYNAGYALAPATASANDSEQOSSLSSDA---DTLSLTSSVDGIPPYRI--RKQH 389
Qy      334 QREMHRSVKANQVSLPHFPTRHLPKEMTPVEPAFAELISRLKLELESRHSLEE 393
Db      390 REMQESAQVNGRVLPHPTRTYRVPKEVR-VEPOKFAEELHRLHEAVORTREAEKLEE 448
Qy      394 RLQOIREDEEKEGSEQUALSSRDGAPVQ-----HPLALLPS-----G 429
Db      449 RLKRVMEEEGE-----DGDSSGPPGCHKLPPAPAMHHPPLRLCWTWACAGLRD 499
Qy      430 SYEEDPQTILDDHLSRVLKTGCGSPGVGRYSRSPRSDPHHHQHQQOCHTLLSTGGKL 489
Db      500 AHEENPESILDEHVQVRLRTTGQSPG-----PCHRSPPDSGHV-----AKM 540
Qy      490 PPVACPLLLGKGSFLTQTTK-----HVHHYIHHHVAVPKTEIEIEAETQVRVC 539
Db      541 PVALGGAASGHGKHPKSGAKLDAAGLHHRHHVHHV--HHSTARPKQVEAEATRAQS 598
Qy      540 LCPGGTDYYCYSK-----CKSHPKAPEPLPGEFCGSRGGLTPKRNAKGTPEGLALSARD 594
Db      599 SFAWGLEPHSHGARSRGYSESVGAAPNASDGLAHSG-KVGVACKRNAKKAESGKSAST-- 655
Qy      595 GGMSSAAGGPQLPG--REGDRSDVQWQWMLSESRQ---SKSKPHSAQSIRKSYPLESARA 649
Db      656 -----EVPGASEDAEKQIMQWIIIEGKEISRHRRTGHSGSGTRKPOPHENSRRP 705
Qy      650 APGERVSRHLLGASGHSRVARAHPFTQDPAMPPLTPNNTLAQLBEACRRLAEVSK--- 706
Db      706 -----LSLEHPWAGPQLRTSVQPSHLFIQDTPMPHPAPNPLTLQLEBEARRRLEEEBKAS 760
Qy      707 --POKQRCVSAQOORDNRNHAAGASGASPANP-----SLAPBDHKPEPKKLAV 753
Db      761 RAPSKQRYVQEVNRR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQKVG 813
Qy      754 HALQASLVVYFFCGEEIPYRMLKAQSLTLGHFKQLSKKNRYRYKKADEFACGA 813
Db      814 SAQPCDSIVWAYVYFCGEPIPYRTLVRGRAVTLGQFKELLTKGYSRYRYFKVSDPEDCGV 873
Qy      814 VFEEIWDDETVLPMEYGRILGKVERID 840
Db      874 VFEEVREDEAVLPVFEKIIGKVEKD 900

RESULT 12
US-10-477-173-670
; Sequence 670, Application US/10477173
; Publication No. US20050070699A1
; GENERAL INFORMATION:
; APPLICANT: Genome Therapeutics Corporation and
; APPLICANT: Allen, Kristina M.
; APPLICANT: Yaworsky, Paul
; APPLICANT: Morales, Arturo J.
; APPLICANT: Graham, James R.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: HBM Variants that Modulate Bone Mass and Lipid Levels
; FILE REFERENCE: 032796-135
; CURRENT APPLICATION NUMBER: US/10/477,173
; PRIOR FILING DATE: 2003-11-10
; PRIOR APPLICATION NUMBER: US 60/290,071
; PRIOR FILING DATE: 2001-05-11
```


;; PRIOR APPLICATION NUMBER: US 60/291,311
;; PRIOR FILING DATE: 2001-05-17
;; PRIOR APPLICATION NUMBER: US 60/353,058
;; PRIOR FILING DATE: 2002-02-01
;; PRIOR APPLICATION NUMBER: US 60/361,293
;; PRIOR FILING DATE: 2002-03-04
;; NUMBER OF SEQ ID NOS: 1086
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 670
;; LENGTH: 900
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-477-173-670

Query Match 36.1%; Score 1605; DB 17; Length 900;
Best Local Similarity 41.2%; Pred. No. 1e-104;
Matches 382; Conservative 125; Mismatches 248; Indels 172; Gaps 29;

Qy 12 DPSSFPREDAPRPVPGEGETPPCPQSVGKQTKMPVVS-----SN 54
Db 48 DLGASFTEDAPRPVPGEGE-----LVSTDRPASYSFCSGKGVGKGETSTAT 97
Qy 55 ARNEDGLG-EPEGRASDPLRTWTKSLHSLLDQDGAYLFRFTLREKCKVDTLDFWFA 113
Db 98 PRSDLDLGYEPEGASPTPYLKWAESLHSLLDQDGISLFRFLKQEGCADLLDFWFA 157
Qy 114 CNGFRQWMLKDT---KTLRVAKAIYKRYI-ENNSVWSKQLPKATKYIRDGIKKQIGSV 169
Db 158 CTGFRKLEPCDSNEEKLKLARAIYKYILDNNGIVSRQTKPATKSFKGCIMQLIDPA 217
Qy 170 MFDQAQTEIOAVMEENAYQVFLTSDIYLEYVRSGENTAYMS--NGGLSLKVLGCLYPT 227
Db 218 MFDQAQTEIOATMEENTYPSFLKSDIYLEYTRTSGESPKVCSDOSSSGTGKIGSYLPT 277
Qy 228 LNEEBEETWC-----ADLKCKLSPTVVGSLSKTLRATASVRSTETAEENGFRSPKR 276
Db 278 LNEDEEWKCDQDMDDEDGRDAAPPGLR-PQKLLLETAAPRVSSRRYSSEGREFRYGSWR- 335
Qy 277 SDPNVPHVGGYGFAPATSSANDSE---LSSDALTDDSMSTDSVDGVPPYRMGSKQL 333
Db 336 -EPVNPYYNAGYALAPATSSANDSEQQSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH 389
Qy 334 QREMHRSVKANGQVSLPHFPKEMTPVEPAAPAEELISLEKLELESRHSLEE 393
Db 390 REMQESAQVNGRVPLPHIPRTYRVKPEVR-VEPQKFAEELIHLRLEAVQRTREAEKLEE 448
Qy 394 RLQOIREDKEEGSEQALSSRDGAPVQ-----HPLALLPS-----G 429
Db 449 RLKRVMEEGE-----DGDPSGPPGPGCHKLPAPAWHHFPPRLCWTWACAGLRD 499
Qy 430 SYEEDPQTLDDHLSRVLTGPGQSPGVGRYSRPSRSPDHHHQHQQOCHTLLSTGKL 489
Db 500 AHEENPESILDEHVQRLVLTGQSPG-----PGRHSPDSGHV-----AKM 540
Qy 490 PPVAACPLLGKSLTKQTK-----HVHHYIHHAVPKTKEIEAEATORVRC 539
Db 541 FVALGGAASGHGKVPKSGAKLDAAGLHHHRHHV--HHSTARPKQEVAEATRRQAS 598
Qy 540 LCPGTDVYYSK-----CKSHKPAPEPLQEGFCGSRGGTLPKRNAKGTPEGLALSARD 594
Db 599 SFWGLEPHSHGARGSESVGAAPNASDGLAHSG-KVGVACKENAKKAEBSKASST-- 655
Qy 595 GGMSSAAGGPQLPG--EEGDRSQDVWQWMLSERO---SKKPHSAQIRKSYPLESARA 649
Db 656 -----EVPGASEDAEKQKIMQWIEEKEISRRHRTGHGSSGTRKRPQPHENSRP 705
Qy 650 APGERVSRHLLGASHGSRVARHPFTQDPAMPPLTPNTLAQLEACRLAEVSK--- 706
Db 706 -----LSLEHPWAGPQLRTSQPSFLTQDPTMPHPAPNPLTQLEEARREBEKRAAS 760
Qy 707 --POKORCCVASQQRDRNHSAGQAGASPFANP-----SLAPEDHKEPKKLASV 753
Db 761 RAPSKQRTVQEVMMR-----GRACVRPACAPVLHVVPVAVSDMELSETETRSQRKVG 813

Qy 754 HALQASSELVVTYFFCGEIEPYRMLKAQSLTLGHFEQKLSKGNRYRYFKASDEFACGA 813
Db 814 SAQPCDSIVVAYYFCGEPIFYRTLVRGRAVTLGQKELLTKGSRYYRYFKVSDFCGV 873
Qy 814 VFBEIWDDEVLPMYEGRIILGKVERID 840
Db 874 VFBEVREDEAVLPVFEEKIIGKVEKD 900

RESULT 13
US-10-786-720-34
;; Sequence 34, Application US/10786720
;; Publication No. US20040191818A1
;; GENERAL INFORMATION:
;; APPLICANT: Wyeth
;; APPLICANT: O'Toole, Margot
;; APPLICANT: Liu, Wei
;; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING AUTOIMMUNE
;; DISEASES
;; FILE REFERENCE: 031896-023000 (AM101331L)
;; CURRENT APPLICATION NUMBER: US/10/786,720
;; CURRENT FILING DATE: 2004-02-26
;; NUMBER OF SEQ ID NOS: 21135
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 34
;; LENGTH: 461
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-786-720-34

Query Match 19.3%; Score 860; DB 16; Length 461;
Best Local Similarity 50.5%; Pred. No. 2.9e-52;
Matches 192; Conservative 50; Mismatches 82; Indels 56; Gaps 12;

Qy 12 DPSSFPREDAPRPVPGEGETPPCPQSVGKQTKMPVVS-----SN 54
Db 60 DLGASFTEDAPRPVPGEGE-----LVSTDRPASYSFCSGKGVGKGETSTAT 109
Qy 55 ARNEDGLG-EPEGRASDPLRTWTKSLHSLLDQDGAYLFRFTLREKCKVDTLDFWFA 113
Db 110 PRSDLDLGYEPEGASPTPYLKWAESLHSLLDQDGISLFRFLKQEGCADLLDFWFA 169
Qy 114 CNGFRQWMLKDT---KTLRVAKAIYKRYI-ENNSVWSKQLPKATKYIRDGIKKQIGSV 169
Db 170 CTGFRKLEPCDSNEEKLKLARAIYKYILDNNGIVSRQTKPATKSFKGCIMQLIDPA 229
Qy 170 MFDQAQTEIOAVMEENAYQVFLTSDIYLEYVRSGENTAYMS--NGGLSLKVLGCLYPT 227
Db 230 MFDQAQTEIOATMEENTYPSFLKSDIYLEYTRTSGESPKVCSDOSSSGTGKIGSYLPT 289
Qy 228 LNEEBEETWC-----ADLKCKLSPTVVGSLSKTLRATASVRSTETAEENGFRSPKR 276
Db 290 LNEDEEWKCDQDMDDEDGRDAAPPGLR-PQKLLLETAAPRVSSRRYSSEGREFRYGSWR- 347
Qy 277 SDPNVPHVGGYGFAPATSSANDSE---LSSDALTDDSMSTDSVDGVPPYRMGSKQL 333
Db 348 -EPVNPYYNAGYALAPATSSANDSEQQSLSSDA---DTLSLTDSSVDGIPPYRI--RKQH 401
Qy 334 QREMHRSVKANGQVSLPHFP 353
Db 402 REMQESAQVNGRVPLPHIP 421

RESULT 14
US-10-106-698-5828
;; Sequence 5828, Application US/10106698
;; Publication No. US20030109690A1
;; GENERAL INFORMATION:
;; APPLICANT: Ruben et al.
;; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
;; FILE REFERENCE: PA00591
;; CURRENT APPLICATION NUMBER: US/10/106,698

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; CURRENT FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: PCT/US00/26524
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US 60/157,137
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: US 60/163,280
; PRIOR FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 8564
; SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 5828
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (5)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (7)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (12)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (48)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-10-106-698-5828

Query Match      16.5%; Score 733; DB 14; Length 155;
Best Local Similarity 90.8%; Pred. No. 6.4e-44;
Matches 139; Conservative 3; Mismatches 11; Indels 0; Gaps 0;

QY 688 PNTLAQLEECRLAEVSKPQKCCVSAQOORNHSAAGQAGSPFANSLAPEDHKEP 747
Db 3 PTXWQLEEXCRLAEVSKPQKCCVSAQOORNHSAATVQTGATXFNPSLAPEDHKEP 62

QY 748 KKLASHVHALQASLVVTFPGCEIPIYRRLMLKAQSLTLGHFKEOLSKKGNRYRYFKKASD 807
Db 63 KKLASHVHALQASLVVTFPGCEIPIYRRLMLKAQSLTLGHFKEOLSKKGNRYRYFKKASD 122

QY 808 EFACGAVFEIWDDETVLPMYEGRIILGKVERID 840
Db 123 EFACGAVFEIWDDETVLPMYEGRIILGKVERID 155

RESULT 15
US-11-097-143-3015
; Sequence 3015, Application US/11097143
; Publication No. US20050208559A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637

; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3015
; LENGTH: 745
; TYPE: PRT
; ORGANISM: DROSOPHILA
; US-11-097-143-3015

Query Match      10.3%; Score 457.5; DB 20; Length 745;
Best Local Similarity 22.2%; Pred. No. 2.2e-23;
Matches 212; Conservative 125; Mismatches 277; Indels 341; Gaps 39;

QY 13 PSSSFRED-----APPPVPGEGETPPCQPSGVKQVQSTKPMFVSSNARNEDGLGEPEG 67
Db 5 PSGRKHDDNECGPRPPVPGEE-----SRVKKMTGEGVADTSK 42

QY 68 RASPDSPLTRWTKSLHSLGLDQDQGYLFRFTFLEREKCV--DTLDFWFACNGFRQMLKDT 125
Db 43 NSPSPS--YLNWARTLNHLLDRDGVLEFKKYVEEAPAYNDHNLNFYFACGLKQQT-DPE 99

QY 126 KTLRVAKAIYKRYIENNSVSKQLKPATYTIYRDGIKKO---QIGSVMFDDQATEIQAVM 182
Db 100 KTKQIIGALYRFLRKSQLSISDDLRAQIK-----AIKTNPEIPLSPHIFDPMQHVETI 154

QY 183 ENAYQVFLTSDIYLEYVVR-----SG--GENTAVMNGGLGSLKVLGVLPTLN 229
Db 155 RNIYPTFLCSEWYILYIOOMSAQOERCCTSSGATSGSAGSGSGSSLAGACALPPTTA 214

QY 230 EEEE-----WTCADLKCKLSPTVVVGLSSKTLRATASVRSTE 265
Db 215 SKQQLPOLVPPGAFINLPVSSVSGPPAGTCSAGSVYGPSTSSASSGSIATDILPRSS 274

QY 266 T-----AENG-----FRSPKRS 278
Db 275 TLPTLHEDSVLSLDDFEKVQMOEGGSLGSGSVGAGARAPDYPIRLTRDLIATQKRL 334

QY 279 PVNPHVGGYVPAPAT-----SANDSE---LSSDALTD--DSMTDSSVDGPPVPR 326
Db 335 EIRP-FGAGHYVYNFTTNTSVVPSRVDSERASVSSGGRTSDTWSISCSMDGRPIYIQ 393

QY 327 MGSKQLOREHRSVKANGQV--SLPHFRPRTHLR--PKEMTPFVEPAFAAEILSLKLEKLE 384
Db 394 RRHSSTESKAIQSAMANKETNTFQVIRPTRLHSNEHRLKEELVSLIPLKLE----E 449

QY 385 LESRHSLEERLQO-----IREDEKEGSEQALSSRDGAPVQHPHALLPESGVEEDPQTI 438
Db 450 VKRKRLDERARERNFGAALLTNERSSASDRAPAE---AIREKFAL-----DEDNDQDI 500

QY 439 LDDHLSRVILKTPCQSPGVGRYSRSPSPDHHHHHHHQQCHTLTSTGGKLPVAAACPLL 498
Db 501 LQOHVSRVWKD---QTP-----HRSP-----GTMSP----- 523

QY 499 GGSFLTKQTTKHVVHHYIHHHAVPKTKEIEAEATQVRCLCPGCTDYCYCKCKSHPK 558
Db 524 -----CP----- 525

QY 559 APEPLFGEQFCGSRGTTLPKRNNAKTEPGLAISARGGMSSAAGGQPLPGEEDRSQDVW 618
Db 526 ---PIP-----SRRT-----ATHDSGMVS-DGAMSLSG----- 550

QY 619 QWMLESERQSKKP-HSAQSIKSYPLESARAAPG-----ERVSRHLLGASGHSRVA 671
Db 551 ----HSMKHSKMPDHSKSCSKRLTNNKPSNWTDSGISMFSADTVTIK--DASRSGS-- 602

QY 672 RAHPFTQDPAMPPLTPPNTLAQLEECRLAEVSKPQKCCV-----ASQQRNHS 725
Db 603 -----STASKLEEAKRLED--EPRSRRYAQPMPQHLSQQLASFSS 643

QY 726 AGQAGASPFANPSLAPEDHKPKKLASVHALQASLVVTFPGCEIPIYRRLMLKAQSLTL 785
Db 644 SSSGSGSISL-----PHQPPPLPA-----KPPETIVVFSCEEPVYRIKIPGTQPTL 690
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Qy 786 GHEKEQLSKGNVRYEYFKKASDFACGAVFEEIWDDETULPMYEGRIIGKVERID 840
Db 691 RQFKDYLFRRGHFRFFFKTHCEDPSPVIOEEIYVNDSDILPLFGDKAMGLVKPSD 745

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